

See 1 publications below

See 2 publications below

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EGFR Monoclonal Antibody (H11)

Catalog Number MA5-13070 Product data sheet

Details	
Size	500 μL
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Туре	Antibody
Clone	H11
Immunogen	HC2 20 d2 cells
Conjugate	Unconjugated
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C

Species Reactivity	
Species reactivity	Human, Mouse
Published species	Human, Mouse, Not Applicable
Tested Applications	Dilection *
Tested Applications	Dilution *
Flow Cytometry (Flow)	0.5-1 μg/test
Immunohistochemistry (Paraffin) (IHC (P))	2-4 μg/mL
Immunoprecipitation (IP)	2 μg/mL
Western Blot (WB)	0.5-1.0 μg/mL
Immunocytochemistry (ICC/IF)	2 μg/mL
Published Applications	
Immunohistochemistry (IHC)	See 2 publications below
Western Blot (WB)	See 29 publications below
Miscellaneous PubMed (Misc)	See 1 publications below
Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Immunocytochemistry (ICC/IF)	See 5 publications below

Product specific information

MA5-13070 targets Epidermal Growth Factor Receptor in FACS, ICC/IF, IHC (P), IP, and WB applications and shows reactivity with Human and Mouse samples. This antibody is not recommended for mouse lymph node tissue or human breast carcinoma in IHC applications. The MA5-13070 immunogen is hC2 20 d2 cells.

In vitro Assay (IV)

ELISA (ELISA)

Gel Shift (GS)

Neutralization (Neu)

Immunoprecipitation (IP)

Flow Cytometry (Flow)

Background/Target Information

EGFR, epidermal growth factor receptor, is a receptor tyrosine kinases that signals in response to various growth factors. Overexpression has been linked to numerous types of cancer and EGFR is the target of both biological and small molecular therapeutics. EGFR is encoded by the EGFR gene located on chromosome 7 in humans. EGFR belongs to the HER/ERbB family of proteins that includes three other receptor tyrosine kinases, ERbB2, ERbB3, ERbB4. EGFR is a transmembrane receptor and binding of its cognate ligands such as EGF (Epidermal Growth Factor) and TGF alpha (Transforming Growth Factor alpha) to the extracellular domain leads to EGFR dimerization followed by autophosphorylation of the tyrosine residues in the cytoplasmic domain. Overexpression is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.

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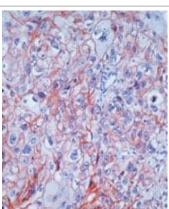
^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product Images For EGFR Monoclonal Antibody (H11)

Wild type CAS9 control EGFR Knockout

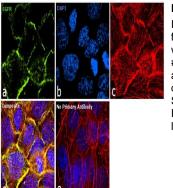
EGFR Antibody (MA5-13070)

Altered expression of target protein upon Knockout demonstrates antibody specificity. Immunofluorescence analysis of EGFR using Anti-EGFR Mouse monoclonal Antibody (Product # MA5-13070) shows no expression in A-431 EGFR knockout cells. {KO}



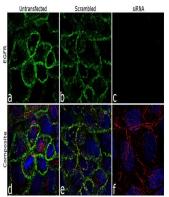
EGFR Antibody (MA5-13070) in IHC (P)

Formalin-fixed, paraffin-embedded human squamous cell carcinoma of lung stained with EGFR antibody using peroxidase-conjugate and AEC chromogen. Note cell membrane staining of tumor cells.



EGFR Antibody (MA5-13070) in ICC/IF

Immunofluorescence analysis of EGFR was performed using 90% confluent log phase A-431 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with EGFR Mouse monoclonal antibody (Product # MA5-13070) at 2 μg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing membrane localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



EGFR Antibody (MA5-13070)

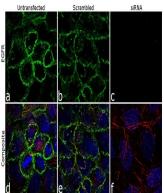
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A-431 cells were transfected with EGFR siRNA and decrease of signal was observed in immunofluorescence application using EGFR Mouse Monoclonal antibody (Product # MA5-13070). {KD}

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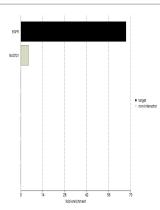
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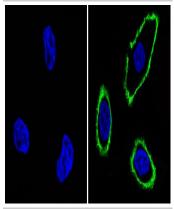
EGFR Antibody (MA5-13070) in ICC/IF

Knockdown of EGFR was achieved by transfecting A-431 cells with EGFR specific siRNA (Silencer® select Product # s563, s564 and s565). Immunofluorescence analysis was performed on A431 cells (untransfected, panel a,d), transfected with non-specific scrambled siRNA (panels b,e) and transfected with EGFR specific siRNA (panel c,f) Cells were fixed, permeabilized, and labelled with EGFR Mouse monoclonal Antibody (Product # MA5-13070, 5 µg /mL), followed by Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175, 1:2000). Nuclei (blue) were stained using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938), and Rhodamine Phalloidin (Product # R415, 1:300) was used for cytoskeletal F-actin (red) staining. Loss of signal was observed upon siRNA mediated knockdown (panel c,f) confirming specificity of the antibody to EGFR (green). The images were captured at 60X magnification.



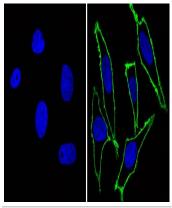
EGFR Antibody (MA5-13070)

IP-MS enrichment of EGFR (LFQ intensity): EGFR was enriched 67-fold from A549 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and EGFR antibody (Product # MA5-13070). The STRING database (www.string-db.org) was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. {IP-MS}



EGFR Antibody (MA5-13070) in ICC/IF

Immunofluorescent analysis of Epidermal Growth Factor Receptor (green) showing staining in the membrane of A431 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with an Epidermal Growth Factor Receptor monoclonal antibody (Product # MA5-13070) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



EGFR Antibody (MA5-13070) in ICC/IF

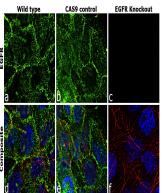
Immunofluorescent analysis of Epidermal Growth Factor Receptor (green) showing staining in the membrane of Hela cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with an Epidermal Growth Factor Receptor monoclonal antibody (Product # MA5-13070) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.

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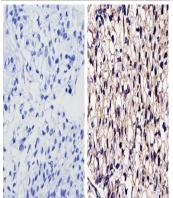
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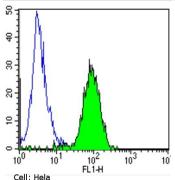
EGFR Antibody (MA5-13070) in ICC/IF

Immunofluorescence analysis of EGFR was performed using 70% confluent log phase A-431 cells (WIld type, panels a,d), CAS9 control (panels b,e) and EGFR Knockout (panels c,f). The cells were fixed, permeabilized, and labelled with EGFR Mouse Monoclonal Antibody(Product # MA5-13070, 5 µg/mL), followed by Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175, 1:2000). Nuclei (blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938) and Rhodamine Phalloidin (Product # R415, 1:300) was used for cytoskeletal F-actin (red) staining. Loss of signal was observed in EGFR Knockout cells (panel c,f) confirming specificity of the antibody to EGFR(green). The images were captured at 60X magnification.



EGFR Antibody (MA5-13070) in IHC (P)

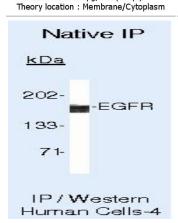
Immunohistochemistry analysis of EGFR showing staining in the membrane and cytoplasm of paraffin-treated human lung carcinoma (right) compared with a negative control in the absence of primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Epidermal Growth Factor Receptor monoclonal antibody (Product # MA5-13070) diluted by 3% BSA-PBS at a dilution of 1:50 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Concentration: 0.5µg/test (100µl)

EGFR Antibody (MA5-13070) in Flow

Flow cytometry analysis of Epidermal Growth Factor Receptor in Hela cells compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10⁶ cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a Epidermal Growth Factor Receptor monoclonal antibody (Product # MA5-13070) at a dilution of 0.5 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated goat anti-mouse IgG (H+L) secondary antibody and re-suspended in PBS for FACS analysis.



EGFR Antibody (MA5-13070) in IP

Immunoprecipitation of Epidermal Growth Factor Receptor using Epidermal Growth Factor Receptor Monoclonal Antibody (Product # MA5-13070) on Native Human A431 Cells.

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EGFR Antibody (MA5-13070) in WB

Western blot of Epidermal Growth Factor Receptor using Epidermal Growth Factor Receptor Monoclonal Antibody (Product # MA5-13070) on Human Epidermoid.

EGFR Antibody (MA5-13070) in Flow



10⁰ 10¹ 10² 10³

Cell: 3T3 FL1-H

Concentration: 0.5µg/test (100µl)

Theory location: Membrane/Cytoplasm

Flow cytometry analysis of Epidermal Growth Factor Receptor in NIH/3T3 cells compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10^6 cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a Epidermal Growth Factor Receptor monoclonal antibody (Product # MA5-13070) at a dilution of 0.5 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated goat anti-mouse IgG (H+L) secondary antibody and re-suspended in PBS for FACS analysis.

021 001 08 09 0P 02 102 103 10

Cell: Jurkat
Concentration: 1µg/test (100µl)
Theory location : Membrane/Cytoplasm

EGFR Antibody (MA5-13070) in Flow

Flow cytometry analysis of Epidermal Growth Factor Receptor in Jurkat cells compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10^6 cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a Epidermal Growth Factor Receptor monoclonal antibody (Product # MA5-13070) at a dilution of 1 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated goat anti-mouse IgG (H+L) secondary antibody and re-suspended in PBS for FACS analysis.

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2 Immunohistochemist	For EGFR Monoclonal Antibody (H11)
Species / Dilution	Summary
oposios / Dilution	MA5-13070 was used in immunohistochemistry to describe an EGF receptor mutant with tandem kinase domain duplication in glioblastoma multiforme biopsies and cell lines
Mouse / 1:500	Oncogene (2010; 29: 855) "Activity and cellular localization of an oncogenic glioblastoma multiforme-associated EGF receptor mutant possessing a duplicated kinase domain." Author(s):Ozer BH,Wiepz GJ,Bertics PJ PubMed Article URL:http://dx.doi.org/10.1038/onc.2009.385
	MA5-13070 was used in Immunohistochemistry-immunofluorescence to indicate that the combination of IMP3 and BCL-2 may be of diagnostic utility in distinguishing between ISK and SCCIS in daily clinical practice.
Human / 1:50	Journal of cutaneous pathology (2018; 45: 603) "Distinguishing between irritated seborrheic keratosis and squamous cell carcinoma in situ using BCL-2 and IMP3 immunohistochemistry." Author(s):Richey JD,Deng AC,Dresser K,O'Donnell P,Cornejo KM PubMed Article URL:http://dx.doi.org/10.1111/cup.13269
29 Western Blot Refere	ences
Species / Dilution	Summary
	MA5-13070 was used in western blot to study the effect of miR-200 expression on the epithelial-to-mesenchymal transition and resistance to EGFR therapy in bladder cancer cells
Human / Not Cited	Clinical cancer research: an official journal of the American Association for Cancer Research (2009; 15: 5060) "miR-200 expression regulates epithelial-to-mesenchymal transition in bladder cancer cells and reverses resistance to epidermal growth factor receptor therapy." Author(s):Adam L,Zhong M,Choi W,Qi W,Nicoloso M,Arora A,Calin G,Wang H,Siefker-Radtke A,McConkey D,Bar-Eli M, Dinney C PubMed Article URL:http://dx.doi.org/10.1158/1078-0432.CCR-08-2245
Human / Not Cited	MA513070 was used in immunohistochemistry and western blot to determine that MUC1 stimulates epidermal growth factor receptor expression and function in endometrial cancer
	Oncotarget (2016; 7: 32796) "MUC1 stimulates EGFR expression and function in endometrial cancer." Author(s):Engel BJ,Bowser JL,Broaddus RR,Carson DD PubMed Article URL:http://dx.doi.org/10.18632/oncotarget.8743
	MA5-13070 was used in western blot to study the role of cortactin overexpression in increasing invasion potential in oral squamous cell carcinoma
Human / Not Cited	Pathology oncology research : POR (2010; 16: 523) "Overexpression of cortactin increases invasion potential in oral squamous cell carcinoma." Author(s):Yamada S,Yanamoto S,Kawasaki G,Mizuno A,Nemoto TK PubMed Article URL:http://dx.doi.org/10.1007/s12253-009-9245-y
Human / 1:50	MA5-13070 was used in western blot to study whether gene silencing by vector-mediated RNAi inhibition of EGFR expression can reduce the growth of cultured human glioma cells
	Molecular therapy: the journal of the American Society of Gene Therapy (2005; 12: 803) "Herpes simplex virus 1 amplicon vector-mediated siRNA targeting epidermal growth factor receptor inhibits growth of human glioma cells in vivo." Author(s):Saydam O,Glauser DL,Heid I,Turkeri G,Hilbe M,Jacobs AH,Ackermann M,Fraefel C PubMed Article URL:http://dx.doi.org/10.1016/j.ymthe.2005.07.534
Human / 1:3000	MA5-13070 was used in western blot to study the mechanism of resistance to the EGFR tyrosine kinase inhibitor Gefitinil in bladder cancer cells
	Cancer research (2005; 65: 10524) "Uncoupling between epidermal growth factor receptor and downstream signals defines resistance to the antiproliferative effect of Gefitinib in bladder cancer cells." Author(s):Kassouf W,Dinney CP,Brown G,McConkey DJ,Diehl AJ,Bar-Eli M,Adam L PubMed Article URL:http://dx.doi.org/10.1158/0008-5472.CAN-05-1536
	MA5-13070 was used in western blot to investigate the relationship between SGLT1 and EGFR gene expression and tumor differetiation in oral squamous cell carcinoma
Human / 1:2000	Odontology (2012; 100: 156) "Coexpression of SGLT1 and EGFR is associated with tumor differentiation in oral squamous cell carcinoma." Author(s):Hanabata Y,Nakajima Y,Morita K,Kayamori K,Omura K PubMed Article URL:http://dx.doi.org/10.1007/s10266-011-0033-2

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Mouse / Not Cited	MA5-13070 was used in western blot to study the role of a constitutively active variant of the EGFR in increasing mouse fibroblast motility
	International journal of cancer (2004; 108: 643) "Expression of a naturally occurring constitutively active variant of the epidermal growth factor receptor in mouse fibroblasts increases motility." Author(s):Pedersen MW,Tkach V,Pedersen N,Berezin V,Poulsen HS PubMed Article URL:http://dx.doi.org/10.1002/ijc.11566
	MA5-13070 was used in western blot to study the efficacy of a dual PI3 kinase/mTOR inhibitor in glioma
Human / Not Cited	Cancer cell (2006; 9: 341) "A dual Pl3 kinase/mTOR inhibitor reveals emergent efficacy in glioma." Author(s):Fan QW,Knight ZA,Goldenberg DD,Yu W,Mostov KE,Stokoe D,Shokat KM,Weiss WA PubMed Article URL:http://dx.doi.org/10.1016/j.ccr.2006.03.029
	MA5-13070 was used in western blot to study the effect of ADAM17 silencing on multiple acquired renal carcinoma tumor capabilities
Human / Not Cited	Cancer research (2006; 66: 8083) "Multiple acquired renal carcinoma tumor capabilities abolished upon silencing of ADAM17." Author(s):Franovic A,Robert I,Smith K,Kurban G,Pause A,Gunaratnam L,Lee S PubMed Article URL:http://dx.doi.org/10.1158/0008-5472.CAN-06-1595
Human / 1:1000	MA5-13070 was used in western blot to investigate the effect of heterogenous nuclear ribonucleoprotein D-like protein on androgen-independent LNCaP cell proliferation
	Cell biochemistry and function (2008; 26: 467) "Overexpression of JKTBP1 induces androgen-independent LNCaP cell proliferation through activation of epidermal growth factor-receptor (EGF-R)." Author(s):Wu YY,Li H,Lv XY,Wei Q,Li X,Liu XY,Zhou Q,Wei YQ PubMed Article URL:http://dx.doi.org/10.1002/cbf.1468
Human / 1:500	MA5-13070 was used in western blot to determine the minimal period of melatonin treatment required to induce the differentiation of human mesenchymal stem cells into osteoblasts
	Journal of pineal research (2010; 49: 222) "Determination of the minimal melatonin exposure required to induce osteoblast differentiation from human mesenchymal stem cells and these effects on downstream signaling pathways." Author(s):Sethi S,Radio NM,Kotlarczyk MP,Chen CT,Wei YH,Jockers R,Witt-Enderby PA PubMed Article URL:http://dx.doi.org/10.1111/j.1600-079X.2010.00784.x
Human / 1:200-1000	MA5-13070 was used in western blot to study molecular markers of the response to cetuximab therapy in a panel of urothelial carcinoma cell lines
	Clinical cancer research: an official journal of the American Association for Cancer Research (2008; 14: 1478) "Sensitivity to epidermal growth factor receptor inhibitor requires E-cadherin expression in urothelial carcinoma cells." Author(s):Black PC,Brown GA,Inamoto T,Shrader M,Arora A,Siefker-Radtke AO,Adam L,Theodorescu D,Wu X,Munsell MF,Bar-Eli M,McConkey DJ,Dinney CP PubMed Article URL:http://dx.doi.org/10.1158/1078-0432.CCR-07-1593
Human / Not Cited	MA5-13070 was used in western blot to investigate the effect of a novel toll-like receptor 9 agonist on epidermal growth factor receptor inhibition and on tumor growth
	Clinical cancer research: an official journal of the American Association for Cancer Research (2006; 12: 577) "Novel toll-like receptor 9 agonist induces epidermal growth factor receptor (EGFR) inhibition and synergistic antitumor activity with EGFR inhibitors." Author(s):Damiano V,Caputo R,Bianco R,D'Armiento FP,Leonardi A,De Placido S,Bianco AR,Agrawal S,Ciardiello F, Tortora G PubMed Article URL:http://dx.doi.org/10.1158/1078-0432.CCR-05-1943
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Human / Not Cited	MA5-13070 was used in western blot to study the effect of combined treatment with erlotinib and bevacizumab against melanoma
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Human / 1:100	International journal of cancer (2002; 97: 7) "Epidermal growth factor receptor mutation type III transfected into a small cell lung cancer cell line is predominantly localized at the cell surface and enhances the malignant phenotype." Author(s):Damstrup L,Wandahl Pedersen M,Bastholm L,Elling F,Skovgaard Poulsen H PubMed Article URL:http://dx.doi.org/10.1002/ijc.1572
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Species / Dilution	Summary
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5 Immunocytochemistry References

Species / Dilution Summary

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	MA5-13070 was used in immunocytochemistry to study EGF-independent activation of mutant cell-surface EGF receptors in gefitinib-sensitive lung cancer
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Human / Not Cited	Journal of molecular biology (2012; 422: 532) "Triepitopic antibody fusions inhibit cetuximab-resistant BRAF and KRAS mutant tumors via EGFR signal repression." Author(s):Spangler JB,Manzari MT,Rosalia EK,Chen TF,Wittrup KD PubMed Article URL:http://dx.doi.org/10.1016/j.jmb.2012.06.014
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Species / Dilution	Summary
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Human / Not Cited	Breast cancer research: BCR (2011; 13:) "Quantitative assays for the measurement of HER1-HER2 heterodimerization and phosphorylation in cell lines and breast tumors: applications for diagnostics and targeted drug mechanism of action." Author(s):DeFazio-Eli L,Strommen K,Dao-Pick T,Parry G,Goodman L,Winslow J PubMed Article URL:http://dx.doi.org/10.1186/bcr2866
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Species / Dilution	Summary
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Species / Dilution	Summary
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Human / Not Cited	Experimental dermatology (1998; 7: 184) "Cell migration and MMP-9 secretion are increased by epidermal growth factor in HaCaT-ras transfected cells." Author(s):Charvat S,Chignol MC,Souchier C,Le Griel C,Schmitt D,Serres M PubMed Article URL:http://dx.doi.org/10.1111/j.1600-0625.1998.tb00322.x

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