

# EGFR Monoclonal Antibody (225)

Product Details	
Size	500 µL
Species Reactivity	Human, Non-human primate
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	225
Conjugate	Unconjugated
Immunogen	Purified EGFR from A431 cells
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
RRID	AB_10982150

Applications	Tested Dilution	Publications
Western Blot (WB)	-	4 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	5 µg/mL	10 Publications
Flow Cytometry (Flow)	-	2 Publications
Immunoprecipitation (IP)	2 µg/mL	1 Publication
Neutralization (Neu)	-	9 Publications
Gel Shift (GS)	-	1 Publication

## Product Specific Information

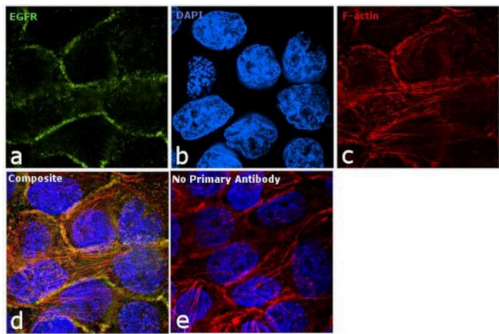
MA5-12880 targets Epidermal Growth Factor Receptor in IP and IF applications and shows reactivity with Human and Non-human primate samples.

The MA5-12880 immunogen is purified EGFR from A431 cells.

Product Images For EGFR Monoclonal Antibody (225)

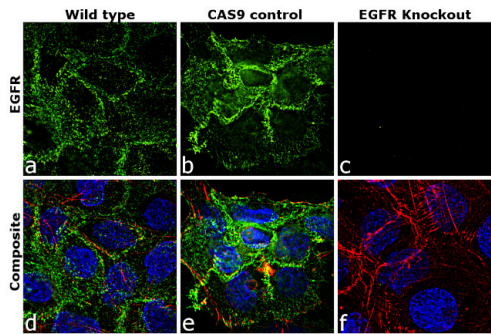
EGFR Antibody (MA5-12880) in ICC/IF

Immunofluorescence analysis of EGFR was performed using 90% confluent log phase A431 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 # MA5-12880) at 5 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.



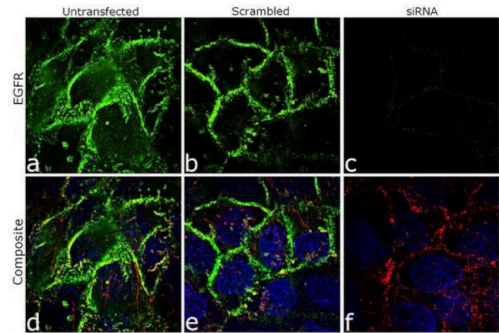
EGFR Antibody (MA5-12880)

Altered expression of target protein upon Knockout demonstrates antibody specificity. Immunofluorescence analysis of EGFR using Anti-EGFR Mouse monoclonal Antibody (Product # MA5-12875) shows no expression in A-431 EGFR knockout cells. {KO}



EGFR Antibody (MA5-12880)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A-431 cells were transfected with EGFR siRNA and loss of signal was observed in immunofluorescence application using EGFR Mouse Monoclonal antibody (Product # MA5-12880). {KD}



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## Western Blot (4)

<p><b>Scientific reports</b></p> <p><b>Interaction of EGFR to -catenin leads to -catenin phosphorylation and enhances EGFR signaling.</b></p> <p>"Published figure using EGFR monoclonal antibody (Product # MA5-12880) in Western Blot"</p> <p>Authors: He Y,Ryu T,Shrestha N,Yuan T,Kim H,Shrestha H,Cho YC,Seo YW,Song WK,Kim K</p>	<p><b>Year</b> 2016</p>
<p><b>Biochemical and biophysical research communications</b></p> <p><b>Involvement of membrane-type bile acid receptor M-BAR/TGR5 in bile acid-induced activation of epidermal growth factor receptor and mitogen-activated protein kinases in gastric carcinoma cells.</b></p> <p>"MA5-12880 was used in western blot to investigate the role of membrane-type bile acid receptor M-BAR/TGR5 in bile acid-induced activation of EGFR and MAPK in gastric carcinoma cells"</p> <p>Authors: Yasuda H,Hirata S,Inoue K,Mashima H,Ohnishi H,Yoshiba M</p>	<p><b>Year</b> 2007</p> <p><b>Species</b> Human</p>

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## Immunohistochemistry (1)

<p><b>Annals of oncology : official journal of the European Society for Medical Oncology</b></p> <p><b>Epidermal growth factor receptor as a biomarker for cervical cancer.</b></p> <p>"MA5-12880 was used in immunohistochemistry to investigate the expression of epidermal growth factor receptor in cervical cancer"</p> <p>Authors: Soonthornthum T,Arias-Pulido H,Joste N,Lomo L,Muller C,Rutledge T,Verschraegen C</p>	<p><b>Year</b> 2011</p> <p><b>Species</b> Human</p>
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## Immunocytochemistry (10)

<p><b>ACS sensors</b></p> <p><b>Litmus-Body: A Molecularly Targeted Sensor for Cell-Surface pH Measurements.</b></p> <p>"MA5-12880 was used in Immunocytochemistry-immunofluorescence to show that the Litmus-body can be successfully targeted to IgG antibodies and provide localized pH measurements in the vicinity of specific cell surface components, as well as following their transit through the endocytic pathway."</p> <p>Authors: Kuo JC,Goudge MC,Metzloff AE,Huang LT,Colville MJ,Park S,Zipfel WR,Paszek MJ</p>	<p><b>Year</b> 2020</p> <p><b>Species</b> Mouse</p>
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- Flow (2)
- IP (1)
- Neu (9)
- GS (1)

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