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FITC Polyclonal Antibody

Catalog Number 71-1900

Product data sheet

Details	
Size	100 µg
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	FITC
Conjugate	Unconjugated
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C

Species Reactivity	
Species reactivity	Chemical
Published species	Tag, Chemical, Not Applicable

Tested Applications	Dilution *
ELISA (ELISA)	0.5-1.0 µg/mL
Immunohistochemistry (IHC)	Assay-dependent
Immunoprecipitation (IP)	Assay-dependent
Western Blot (WB)	0.5-1 µg

Published Applications	
Immunocytochemistry (ICC/IF)	See 3 publications below
Western Blot (WB)	See 1 publications below
Immunohistochemistry (IHC)	See 6 publications below
Immunohistochemistry (Frozen) (IHC (F))	See 1 publications below
In Situ Hybridization (ISH) (ISH)	See 1 publications below
Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Miscellaneous PubMed (Misc)	See 1 publications below

* 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 specific information

This antibody was purified from serum of rabbit hyper-immunized with FITC conjugated to KLH. The antibody was purified by antigen-specific matrix. The antibody reacts with FITC but not the carrier protein. Useful as a secondary antibody in a wide range of immunoassays including: ELISA, tissue and cell staining, immunoprecipitation, and western blotting. The protein concentration is determined based on an E (1%) = 14 at 280 nm.

Background/Target Information

FITC (fluorescein isothiocyanate) is a fluorochrome dye that absorbs ultraviolet or blue light causing molecules to become excited and emit a visible yellow-green light. This emission ceases upon removal of the light causing the excitation. Fluorochrome labeling provides rapid, accurate localization of antigen-antibody interaction when one of the reactants is part of a cell, tissue or other biological structure. FITC is a commonly used marker for antibodies in immunofluorescent techniques since the conjugation of FITC to proteins is relatively easy and does not, in general, destroy the biological activity of the labeled protein. FITC is widely used as a hapten to label different proteins. Anti-FITC antibodies can be used for isolating FITC labeled cells by magnetic microbeads based sorting, as well as removal of background signal.

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PubMed References For FITC Polyclonal Antibody

3 Immunocytochemistry References

Species / Dilution	Summary
Chemical / Not Cited	71-1900 was used in Immunocytochemistry-immunoflourescence to evidence that SASPs, coming either from mesenchymal stromal cells treated with H202 or with low X-ray doses, induced senescence of immortalized cells but not of cancer cells. Aging (2019; 11: 5817) **"The senescence-associated secretory phenotype (SASP) from mesenchymal stromal cells impairs growth of immortalized prostate cells but has no effect on metastatic prostatic cancer cells."** Author(s):Alessio N,Aprile D,Squillaro T,Di Bernardo G,Finicelli M,Melone MA,Peluso G,Galderisi U PubMed Article URL:http://dx.doi.org/10.18632/aging.102172
Chemical / 1:700	71-1900 was used in Immunocytochemistry-immunofluorescence to present a protocol to measure nucleocytoplasmic transport (NCT) for both transcript and protein cargos in cultured cells. STAR protocols (2022; 3:) **"Protocol to image and quantify nucleocytoplasmic transport in cultured cells using fluorescent in situ hybridization and a dual reporter system."** Author(s):Cui H,Sepehrimanesh M,Coutee CA,Akter M,Hosain MA,Ding B PubMed Article URL:http://dx.doi.org/10.1016/j.xpro.2022.101813
Chemical / Not Cited	71-1900 was used in Immunocytochemistry-immunofluorescence to show the use of short-term and low concentration of TSA during reprogramming in PSC generation procedure significantly increases PSC generation efficiency, but do not affect the MHC expression in established cell lines, which is in the benefit of cell transplantation in regenerative medicine. Stem cells international (2022; 2022:) **"The Use of Trichostatin A during Pluripotent Stem Cell Generation Does Not Affect MHC Expression Level."** Author(s):Farahi S,Hosseini S,Ghanbarian H,Hashemi SM,Salehi M,Hosseini S PubMed Article URL:http://dx.doi.org/10.1155/2022/9346767

1 Western Blot References

Species / Dilution	Summary
Chemical / 1:1000	71-1900 was used in western blot to study the role of Shank2 in albumin endocytosis in podocytes Physiological reports (2015; 3:) **"Shank2 Regulates Renal Albumin Endocytosis."** Author(s):Dobrinskikh E,Lewis L,Brian Doctor R,Okamura K,Lee MG,Altmann C,Faubel S,Kopp JB,Blaine J PubMed Article URL:http://dx.doi.org/10.14814/phy2.12510

6 Immunohistochemistry References

Species / Dilution	Summary
Chemical / 1:500	71-1900 was used in Immunohistochemistry to suggest that KDM4B play a critical role during inner ear invagination via modulating histone methylation of the direct target Dlx3. The Journal of cell biology (2015; 211: 815) **"Histone demethylase KDM4B regulates otic vesicle invagination via epigenetic control of Dlx3 expression."** Author(s):Uribe RA,Buzzi AL,Bronner ME,Strobl-Mazzulla PH PubMed Article URL:http://dx.doi.org/10.1083/jcb.201503071
Chemical / Not Cited	Proceedings of the National Academy of Sciences of the United States of America (2011; 108: E1275) **"Imaging guided trials of the angiogenesis inhibitor sunitinib in mouse models predict efficacy in pancreatic neuroendocrine but not ductal carcinoma."** Author(s):Olson P,Chu GC,Perry SR,Nolan-Stevaux O,Hanahan D PubMed Article URL:http://dx.doi.org/10.1073/pnas.1111079108
Chemical / 1:200	71-1900 was used in Immunohistochemistry to elucidate the carcinogenic effects of increased Matriptase activity. eLife (2021; 10:) **"Matriptase activation of Gq drives epithelial disruption and inflammation via RSK and DUOX."** Author(s):Ma J,Scott CA,Ho YN,Mahabaleshwar H,Marsay KS,Zhang C,Teow CK,Ng SS,Zhang W,Tergaonkar V, Partridge LJ,Roy S,Amaya E,Carney TJ PubMed Article URL:http://dx.doi.org/10.7554/eLife.66596
Chemical / Not Cited	71-1900 was used in Immunohistochemistry-immunofluorescence to enable the detection and modulation of intracellular molecules in cultured living cells and whole animals. JCI insight (2019; 4:) **"An effective cell-penetrating antibody delivery platform."** Author(s):Herrmann A,Nagao T,Zhang C,Lahtz C,Li YJ,Yue C,Mülfarth R,Yu H PubMed Article URL:http://dx.doi.org/10.1172/jci.insight.127474

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	71-1900 was used in immunohistochemistry to assess the role of VEGFR-3 in angiogenic sprouts.
Chemical / Not Cited	Nature (2008; 454: 656) **"Blocking VEGFR-3 suppresses angiogenic sprouting and vascular network formation."** Author(s):Tammela T,Zarkada G,Wallgard E,Murtomäki A,Suchting S,Wirzenius M,Waltari M,Hellström M,Schomber T,Peltonen R,Freitas C,Duarte A,Isoniemi H,Laakkonen P,Christofori G,Ylä-Herttuala S,Shibuya M,Pytowski B,Eichmann A,Betsholtz C,Alitalo K PubMed Article URL:http://dx.doi.org/10.1038/nature07083
	71-1900 was used in Immunohistochemistry-immunofluorescence to conclude that tumour vascular antigens are promising candidates for development of therapeutic vaccines targeting growth of primary tumours.
Chemical / 1:500	Oncotarget (2014; 5: 12418) **"Therapeutic vaccination against fibronectin ED-A attenuates progression of metastatic breast cancer."** Author(s):Femel J,Huijbers EJ,Saupe F,Cedervall J,Zhang L,Roswall P,Larsson E,Olofsson H,Pietras K,Dimberg A,Hellman L,Olsson AK PubMed Article URL:http://dx.doi.org/10.18632/oncotarget.2628

1 Immunohistochemistry (Frozen) References

Species / Dilution	Summary
	711900 was used in immunohistochemistry - frozen section to study the interaction between ALK1 and endoglin in pancreatic neuroendocrine tumors
Chemical / 1:100	Oncotarget (2016; 7: 84314) **"Compound genetically engineered mouse models of cancer reveal dual targeting of ALK1 and endoglin as a synergistic opportunity to impinge on angiogenic TGF- signaling."** Author(s):Eleftheriou NM,Sjölund J,Bocci M,Cortez E,Lee SJ,Cunha SI,Pietras K PubMed Article URL:http://dx.doi.org/10.18632/oncotarget.12604

1 In Situ Hybridization (ISH) References

Species / Dilution	Summary
	71-1900 was used in Immunocytochemistry-immunoflourescence to characterise the chromatin landscape and genomic architecture of the human papillomavirus integration locus to elucidate the mechanisms that promote de novo super-enhancer formation.
Chemical / 1:200	PLoS genetics (2018; 14:) **"HPV integration hijacks and multimerizes a cellular enhancer to generate a viral-cellular super-enhancer that drives high viral oncogene expression."** Author(s):Warburton A,Redmond CJ,Dooley KE,Fu H,Gillison ML,Akagi K,Symer DE,Aladjem MI,McBride AA PubMed Article URL:http://dx.doi.org/10.1371/journal.pgen.1007179

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
	711900 was used in immunohistochemistry - paraffin section to study the relationships among ID1, FoxO3a and LMP1 expression in Hodgkin's lymphoma
Chemical / 1:50	Molecular and clinical oncology (2016; 5: 562) **"ID1 upregulation and FoxO3a downregulation by Epstein-Barr virus-encoded LMP1 in Hodgkin's lymphoma."** Author(s):Ikeda JI,Wada N,Nojima S,Tahara S,Tsuruta Y,Oya K,Morii E PubMed Article URL:http://dx.doi.org/10.3892/mco.2016.1012

1 Miscellaneous PubMed References

Species / Dilution	Summary
	71-1900 was used to isolate human chromosome 15 from a lymphoblastoid cell line using a chromosome-specific probe
Chemical / Not Cited	Genomics (2006; 87: 158) **"Fractionation of chromosome 15 with an affinity-based approach using magnetic beads."** Author(s):Vitharana SN,Wilson GS PubMed Article URL:http://dx.doi.org/10.1016/j.ygeno.2005.08.010

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