

NGFR Monoclonal Antibody (NGFR5)

Product Details

Size	500 µL
Species	Cat, Ferret, Human, Non-human primate, Rabbit, Rat
Published Species	Artificial Control, Rat, Human
Expression System	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	NGFR5
Conjugate	Unconjugated
Immunogen	NGFR from A875 melanoma 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_10982037

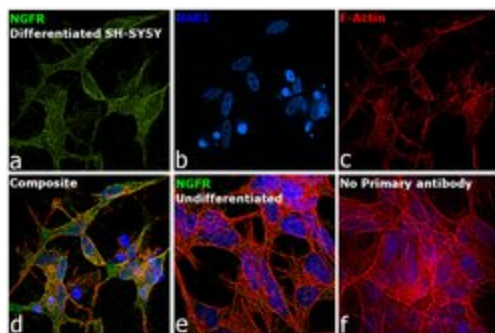
Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	2 µg/test	1 Publication
Immunocytochemistry (ICC)	1:10-1:200	3 Publications
Immunofluorescence (IF)	1:10-1:200	-
Western Blot (WB)	1:10-1:200	-
Immunohistochemistry (IHC)	-	10 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

MA5-13314 targets Neurotrophin Receptor /NGF-Receptor (p75NGFR) in FACS, ICC/IF and WB applications and shows reactivity with Feline, Ferret, Human, Rat, Non-human primate, and Rabbit samples. This antibody does not react with rat tissue in Western blot applications.

The MA5-13314 immunogen is nGFR from A875 melanoma cells.

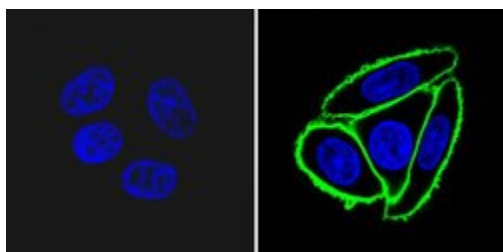
Advanced Verification Data



NGFR Antibody (MA5-13314)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-NGFR Monoclonal Antibody (NGFR5) (Product # MA5-13314), shows upregulation of NGFR expression upon neuronal differentiation of SH-SY5Y cell line using retinoic acid. Relative expression validation info.

Product Images For NGFR Monoclonal Antibody (NGFR5)

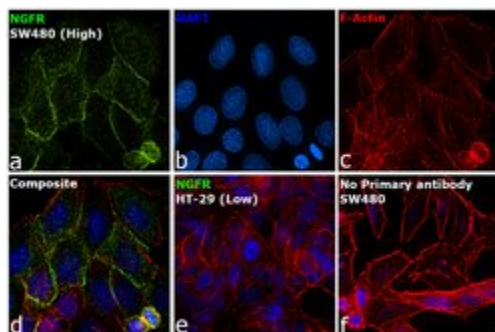


NGFR Antibody (MA5-13314) in IF

Immunofluorescent analysis of Neurotrophin Receptor /NGF-Receptor (p75NGFR) (green) showing staining in the membrane of SW480 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 a Neurotrophin Receptor /NGF-Receptor (p75NGFR) monoclonal antibody (Product # MA5-13314) 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.

NGFR Antibody (MA5-13314) in ICC

Immunofluorescence analysis of NGFR was performed using 70% confluent log phase SW480 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with NGFR Monoclonal Antibody (NGFR5) (Product # MA5-13314) at 1:100 in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766), (1: 2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing membranous and cytosolic localization. Panel e represents HT-29 cells showing no expression of NGFR. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Immunocytochemistry (3)

<p>PloS one</p> <p>Reduced variability of neural progenitor cells and improved purity of neuronal cultures using magnetic activated cell sorting.</p> <p>"MA5-13314 was used in Immunocytochemistry-immunofluorescence to develop a technique for incorporation into standard neural progenitor cell differentiation and maintenance protocols in order to improve culture homogeneity and consistency."</p> <p>Authors: Bowles KR,Tcw J,Qian L,Jadow BM,Goate AM</p>	<p>Species Human Artificial Control</p> <p>Dilution 1:100 Not Cited</p> <p>Year 2019</p>
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<p>Reproductive biology and endocrinology : RB and E</p> <p>In vitro effect of nerve growth factor on the main traits of rabbit sperm.</p> <p>"MA5-13314 was used in Immunocytochemistry-immunofluorescence to provide new insights on human fertility through the exploration of nerve growth factor effects on rabbit sperm functions in vitro."</p> <p>Authors: Castellini C,Mattioli S,Dal Bosco A,Collodel G,Pistilli A,Stabile AM,Macchioni L,Mancuso F,Luca G,Rende M</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2019</p>
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Immunohistochemistry (10)

<p>Alzheimer's and dementia : the journal of the Alzheimer's Association</p> <p>A phase1 study of stereotactic gene delivery of AAV2-NGF for Alzheimer's disease.</p> <p>"MA5-13314 was used in immunohistochemistry to perform a phase I clinical trial to determine the safety and tolerability of an AAV2-NGF vector intended for therapy of Alzheimer's disease"</p> <p>Authors: Rafii MS,Baumann TL,Bakay RA,Ostrove JM,Siffert J,Fleisher AS,Herzog CD,Barba D,Pay M,Salmon DP,Chu Y,Kordower JH,Bishop K,Keator D,Potkin S,Bartus RT</p>	<p>Species Human</p> <p>Dilution Not Cited</p> <p>Year 2014</p>
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<p>The American journal of pathology</p> <p>Rac1b increases with progressive tau pathology within cholinergic nucleus basalis neurons in Alzheimer's disease.</p> <p>"MA5-13314 was used in immunohistochemistry to study the expression of Rac1b in cholinergic nucleus basalis neurones and the correlation with tau pathology and Alzheimer's disease progression"</p> <p>Authors: Perez SE,Getova DP,He B,Counts SE,Geula C,Desire L,Coutadeur S,Peillon H,Ginsberg SD,Mufson EJ</p>	<p>Species Human</p> <p>Dilution 1:15000</p> <p>Year 2012</p>
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Misc (1) Flow (1) IP (1)

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