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

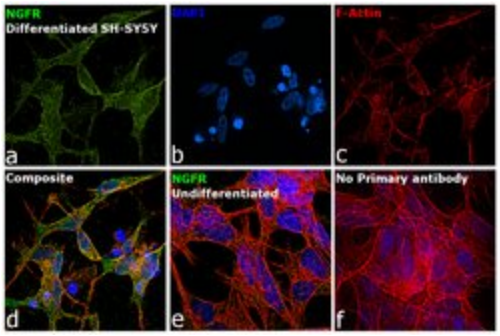
Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	2 µg/test	1 Publication
Immunocytochemistry (ICC)	1:10-1:200	3 Publications
Immunofluorescence (IF)	1:10-1:200	-
Western Blot (WB)	1:10-1:200	-
Immunohistochemistry (IHC)	-	10 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous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

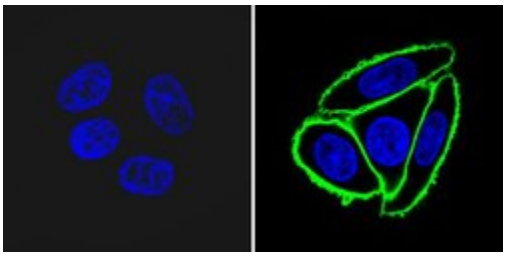
The MA5-13314 immunogen is nGFR from A875 melanoma cells.

Advanced Verification Data

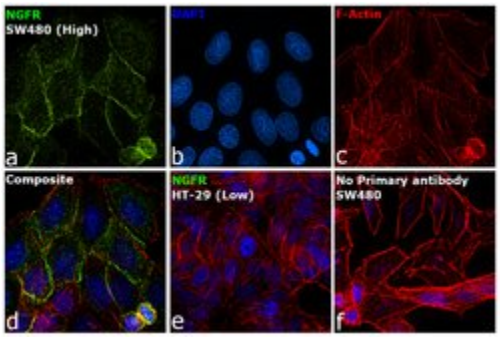


NGFR Antibody (MA5-13314)
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-NGFR Monoclonal Antibody (NGFR5) (Product # MA5-13314), shows upregulation 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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16 References

Immunocytochemistry (3)

PloS one

Reduced variability of neural progenitor cells and improved purity of neuronal cultures using magnetic activated cell sorting.

"MA5-13314 was used in Immunocytochemistry-immunoflourescence to develop a technique for incorporation into standard neural progenitor cell differentiation and maintenance protocols in order to improve culture homogeneity and consistency."

Authors: Bowles KR,Tcw J,Qian L,Jadow BM,Goate AM

Species
Human
Artificial Control

Dilution
1:100
Not Cited

Year
2019

Reproductive biology and endocrinology : RB and E

In vitro effect of nerve growth factor on the main traits of rabbit sperm.

"MA5-13314 was used in Immunocytochemistry-immunoflourescence to provide new insights on human fertility through the exploration of nerve growth factor effects on rabbit sperm functions in vitro."

Authors: Castellini C,Mattioli S,Dal Bosco A,Collodel G,Pistilli A,Stabile AM,Macchioni L,Mancuso F,Luca G,Rende M

Species
Not Applicable

Dilution
Not Cited

Year
2019

View more ICC references on thermofisher.com

Immunohistochemistry (10)

Alzheimer's and dementia : the journal of the Alzheimer's Association

A phase1 study of stereotactic gene delivery of AAV2-NGF for Alzheimer's disease.

"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"

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

Species
Human

Dilution
Not Cited

Year
2014

The American journal of pathology

Rac1b increases with progressive tau pathology within cholinergic nucleus basalis neurons in Alzheimer's disease.

"MA5-13314 was used in immunohistochemistry to study the expression of Raclb in cholinergic nucleus basalis neurones and the correlation with tau pathology and Alzheimer's disease progression"

Authors: Perez SE,Getova DP,He B,Counts SE,Geula C,Desire L,Coutadeur S,Peillon H,Ginsberg SD,Mufson EJ

Species
Human

Dilution
1:15000

Year
2012

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More applications with references on thermofisher.com

Misc (1) **Flow (1)** **IP (1)**