

# NGFR Monoclonal Antibody (NGFR5)

## Product Details

Size	500 µL
Species Reactivity	Cat, Ferret, Human, Non-human primate, Rabbit, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	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 A/G
Storage buffer	PBS, pH 7.4, with 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	4°C
RRID	AB_10982037

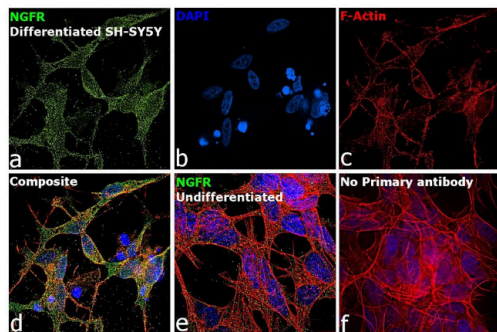
Applications	Tested Dilution	Publications
Western Blot (WB)	1:10-1:200	-
Immunohistochemistry (IHC)	-	12 Publications
Immunocytochemistry (ICC/IF)	1:10-1:200	4 Publications
Flow Cytometry (Flow)	2 µg/test	2 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

## 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.

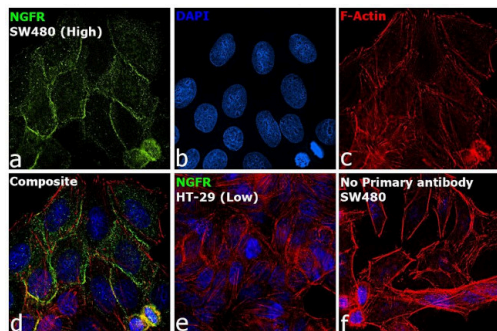
The MA5-13314 immunogen is nGFR from A875 melanoma cells.

## Product Images For NGFR Monoclonal Antibody (NGFR5)



### 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. {RE}

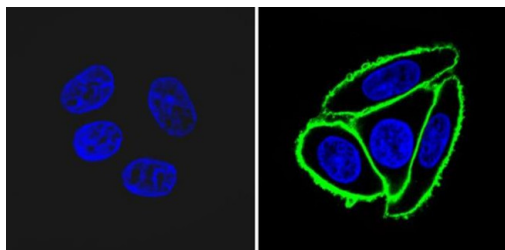


### NGFR Antibody (MA5-13314) in ICC/IF

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.

### NGFR Antibody (MA5-13314) in ICC/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.



View more figures on [thermofisher.cn](http://thermofisher.cn)

## 20 References

### Immunohistochemistry (12)

eLife

#### A genetic compensatory mechanism regulated by *Jun* and *Mef2d* modulates the expression of distinct class IIa *Hdacs* to ensure peripheral nerve myelination and repair.

"MA5-13314 was used in Immunohistochemistry to show that a transcription factor regulated genetic compensatory mechanism within this family of proteins, blocks negative regulators of myelination ensuring peripheral nerve developmental myelination and remyelination after injury."

Authors: Velasco-Aviles S, Patel N, Casillas-Bajo A, Frutos-Rincón L, Velasco E, Gallar J, Arthur-Farraj P, Gomez-Sanchez JA, Cabedo H

Year  
2022

Species  
Mouse

Dilution  
1:100

Cell stem cell

#### Derivation of Airway Basal Stem Cells from Human Pluripotent Stem Cells.

"MA5-13314 was used in Immunohistochemistry to report the directed differentiation of human iPSCs into airway basal cells ("iBCs"), a population resembling the stem cell of the airway epithelium."

Authors: Hawkins FJ, Suzuki S, Beermann ML, Barillà C, Wang R, Villacorta-Martin C, Berical A, Jean JC, Le Suer J, Matte T, Simone-Roach C, Tang Y, Schlaeger TM, Crane AM, Matthias N, Huang SXL, Randell SH, Wu J, Spence JR, Carraro G, Stripp BR, Rab A, Sorsher EJ, Horani A, Brody SL, Davis BR, Kotton DN

Year  
2021

Species  
Human

[View more IHC references on thermofisher.cn](#)

### Immunocytochemistry (4)

Journal of immunology (Baltimore, Md. : 1950)

#### Exosomes Produced by Mesenchymal Stem Cells Drive Differentiation of Myeloid Cells into Immunosuppressive M2-Polarized Macrophages in Breast Cancer.

"Published figure using NGFR monoclonal antibody (Product # MA5-13314) in Immunocytochemistry"

Authors: Biswas S, Mandal G, Roy Chowdhury S, Purohit S, Payne KK, Anadon C, Gupta A, Swanson P, Yu X, Conejo-Garcia JR, Bhattacharyya A

Year  
2019

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-immunofluorescence 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, Jadov BM, Goate AM

Year  
2019

Species  
Human

Dilution  
1:100

[View more ICC/IF references on thermofisher.cn](#)

### More applications with references on thermofisher.cn

[Flow \(2\)](#)

[IP \(1\)](#)

[Misc \(1\)](#)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.