

NGFR Antibody**Purified Mouse Monoclonal Antibody (Mab)****Catalog # AM1842a****Specification****NGFR Antibody - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	P08138
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b,k

NGFR Antibody - Additional Information**Gene ID 4804****Other Names**

Tumor necrosis factor receptor superfamily member 16, Gp80-LNGFR, Low affinity neurotrophin receptor p75NTR, Low-affinity nerve growth factor receptor, NGF receptor, p75 ICD, CD271, NGFR, TNFRSF16

Target/Specificity

This NGFR antibody is generated from mouse immunized with NGFR recombinant protein.

Dilution

IF~~1:100
WB~~1:500~1000
IHC-P~~1:50~100

Format

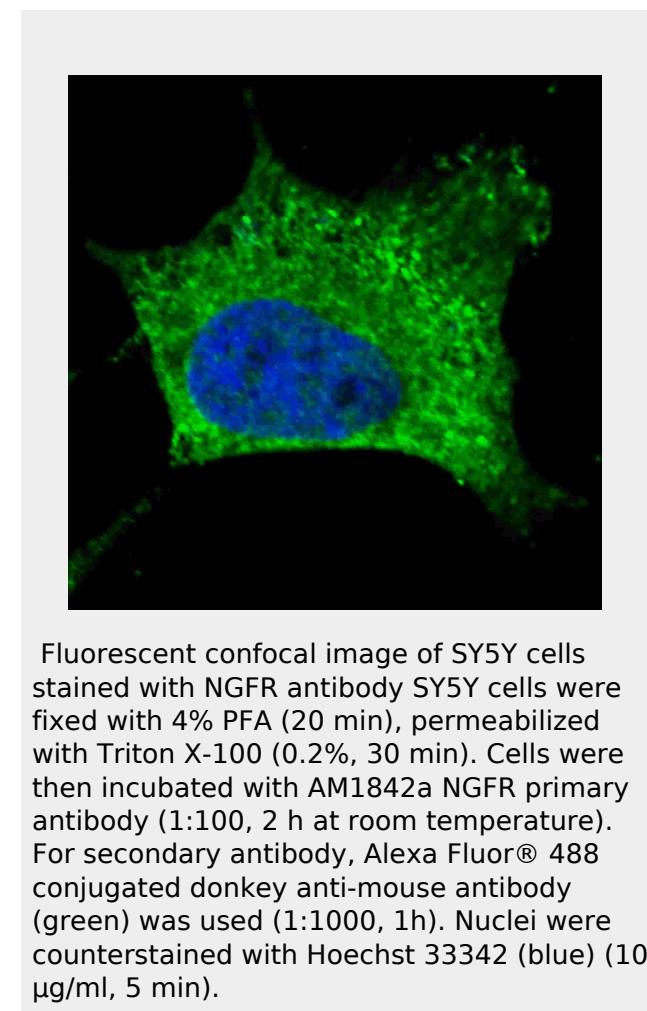
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

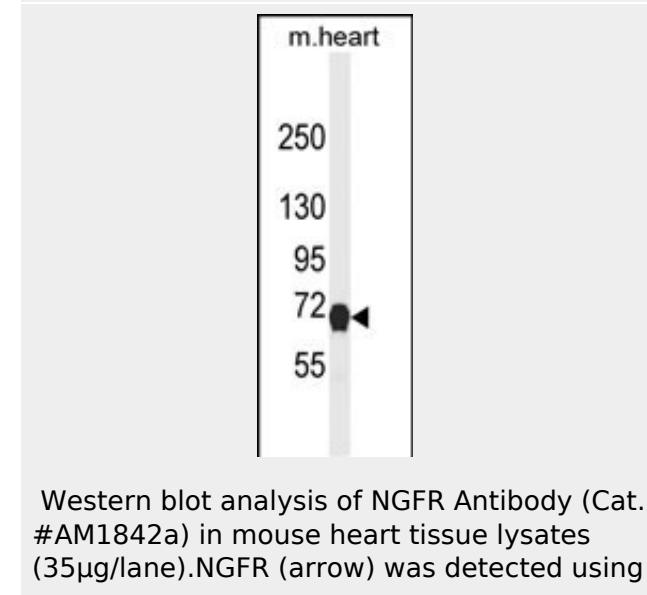
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NGFR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



Fluorescent confocal image of SY5Y cells stained with NGFR antibody SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AM1842a NGFR primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/ml, 5 min).



NGFR Antibody - Protein Information**Name** NGFR**Synonyms** TNFRSF16**Function**

Low affinity receptor which can bind to NGF, BDNF, NTF3, and NTF4. Forms a heterodimeric receptor with SORCS2 that binds the precursor forms of NGF, BDNF and NTF3 with high affinity, and has much lower affinity for mature NGF and BDNF

(PubMed:24908487). Plays an important role in differentiation and survival of specific neuronal populations during development (By similarity). Can mediate cell survival as well as cell death of neural cells. Plays a role in the inactivation of RHOA (PubMed:26646181). Plays a role in the regulation of the translocation of GLUT4 to the cell surface in adipocytes and skeletal muscle cells in response to insulin, probably by regulating RAB31 activity, and thereby contributes to the regulation of insulin-dependent glucose uptake (By similarity). Necessary for the circadian oscillation of the clock genes ARNTL/BMAL1, PER1, PER2 and NR1D1 in the

suprachiasmatic nucleus (SCMgetaN) of the brain and in liver and of the genes involved in glucose and lipid metabolism in the liver (PubMed:23785138).

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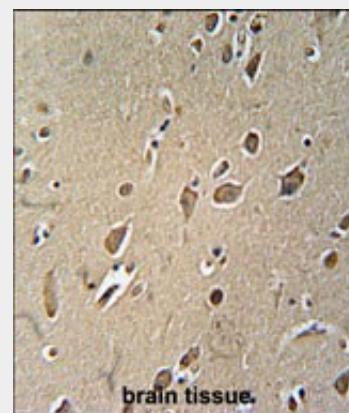
Cellular Location

Cell membrane; Single-pass type I membrane protein. Perikaryon {ECO:0000250|UniProtKB:Q9Z0W1}. Cell projection, growth cone {ECO:0000250|UniProtKB:Q9Z0W1}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q9Z0W1}

NGFR Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

the purified Mab.(1:1000)



NGFR Antibody(Cat. #AM1842a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the NGFR Antibody for immunohistochemistry. Clinical relevance has not been evaluated.

NGFR Antibody - Background

Nerve growth factor receptor contains an extracellular domain containing four 40-amino acid repeats with 6 cysteine residues at conserved positions followed by a serine/threonine-rich region, a single transmembrane domain, and a 155-amino acid cytoplasmic domain. The cysteine-rich region contains the nerve growth factor binding domain.

NGFR Antibody - References

References for protein:

1. Human melanoma-initiating cells express neural crest nerve growth factor receptor CD271. Boiko AD, et al. *Nature*, 2010 Jul 1. PMID 20596026. Interleukin-9 polymorphism in infants with respiratory syncytial virus infection: an opposite effect in boys and girls. Schuurhof A, et al. *Pediatr Pulmonol*, 2010 Jun. PMID:20503287.
2. Poor replication of candidate genes for major depressive disorder using genome-wide association data. Bosker FJ, et al. *Mol Psychiatry*, 2010 Mar 30. PMID 20351714.
3. New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. *Genes Immun*, 2010 Apr. PMID

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- [Blocking Peptides](#)
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- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
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4. Role of the neurotrophin network in eating disorders' subphenotypes: body mass index and age at onset of the disease. Gratacòs M, et al. J Psychiatr Res, 2010 Oct. PMID 20219210. References for SY5Y (SH-SY5Y; ATCC#CRL-2266): 1. Ross RA, et al. Coordinate morphological and biochemical interconversion of human neuroblastoma cells. J. Natl. Cancer Inst. 71: 741-749, 1983. [PubMed: 6137586]; 2. Biedler JL, et al. Multiple neurotransmitter synthesis by human neuroblastoma cell lines and clones. Cancer Res. 38: 3751-3757, 1978. [PubMed: 29704].

NGFR Antibody - Citations

- [Immunofluorescence analysis of sensory nerve endings in the interosseous membrane of the forearm](#)