

Rabbit NGFR Polyclonal Antibody | anti-NGFR antibody

Anti-NGFR Antibody, Rabbit Polyclonal

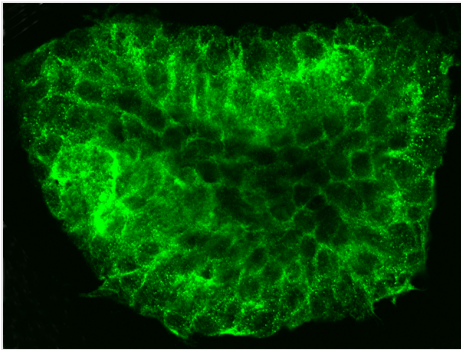
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254671	Rabbit	RatPredicted to React with: Human, Mouse (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NGFR; Polyclonal Antibody; Anti-NGFR Antibody; Rabbit Polyclonal; NGFR/P75 Antibody; Rabbit PAb; Antigen Affinity Purified; nerve growth factor receptor (TNFR superfamily; member 16); anti-NGFR antibody

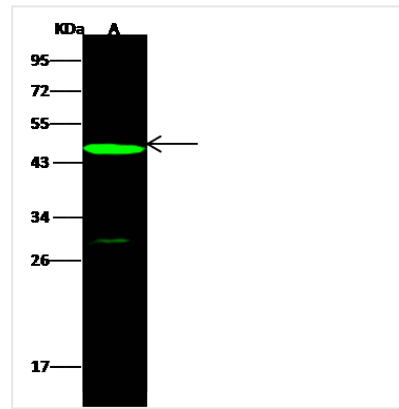
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat Predicted to React with: Human, Mouse (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rat NGFR
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-NGFR antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Rat NGFR/P75
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Rat NGFR/P75, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IF (Immunofluorescence)

Immunofluorescence staining of NGFR in HESS9 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-rat NGFR polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cell membrane and cytoplasm.



WB (Western Blot)

Anti-NGFR rabbit polyclonal antibody at 1:500 dilution Lane A: ACHN Whole Cell
Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti- Rabbit IgG
H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey
technique. Performed under reducing conditions. Predicted band size: 45 kDa Observed band
size: 45 kDa (We are unsure as to the identity of these extra bands).

ADDITIONAL INFORMATION

Related Product Information for anti-NGFR antibody

Nerve growth factor receptors (NGFRs) belong to a large growth factor receptor family. NGFR includes two types of receptors: high-affinity nerve growth factor receptor and low-affinity nerve growth factor receptor. The high-affinity nerve growth factor receptor is also referred to as the Trk family whose members are bound by some neurotrophins with high affinity. Nerve growth factor binds with TrkA after being released from target cells, the NGF/TrkA complex is subsequently trafficked back to the cell body. The Low-affinity nerve growth factor receptor also named p75 which binds with all kinds of neurotrophins with low affinity. All four kinds of neurotrophins, including Nerve growth factor, Brain-derived neurotrophic factor, Neurotrophin-3, and Neurotrophin-4 bind to the p75. Studies have proved that NGFR acts as a molecular signal switch that determines cell death or survival by three steps. First, pro-nerve growth factor (prNGF) triggers cell apoptosis by its high-affinity binding to p75NTR, while NGF induces neuronal survival with low-affinity binding. Second, p75NTR mediates cell death by combining with co-receptor Sortilin, whereas it promotes neuronal survival through combination with proNGF. Third, the release of the intracellular domain chopper or cleavage short p75 NTR can independently initiate neuronal apoptosis.

Product Categories/Family for anti-NGFR antibody

Death Receptor Signaling

References

Chen LW, et al. (2008) The proNGF-p75NTR-sortilin signalling complex as new target for the therapeutic treatment of Parkinson's disease. *CNS Neurol Disord Drug Targets*. 7(6): 512-23. Deponti D, et al. (2009) The low-affinity receptor for neurotrophins p75NTR plays a key role for satellite cell function in muscle repair acting via RhoA. *Mol Biol Cell*. 20(16): 3620-7. Ken-ichi K, et al. (2004) Necdin-related MAGE proteins differentially interact with the E2F1 transcription factor and the p75 neurotrophin receptor. *J Biol Chem*. 279 (3): 1703-12.

NCBI AND UNIPROT INFORMATION

NCBI GI #	291490673
NCBI GeneID	24596
NCBI Accession #	NP_036742.2
NCBI GenBank Nucleotide #	NM_012610.2
UniProt Accession #	P07174
Molecular Weight	45,433 Da
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 16
NCBI Official Synonym Full Names	nerve growth factor receptor

NCBI Official Symbol	Ngfr
NCBI Official Synonym Symbols	p75; LNGFR; p75NTR; RNNGFRR; Tnfrsf16
NCBI Protein Information	tumor necrosis factor receptor superfamily member 16; p75 ICD; gp80-LNGFR; NGF receptor; nerve growth factor receptor, fast; low affinity nerve growth factor receptor; low affinity neurotrophin receptor p75NTR; low-affinity nerve growth factor receptor; n
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 16
UniProt Gene Name	Ngfr
UniProt Synonym Gene Names	Tnfrsf16; NGF receptor
UniProt Entry Name	TNR16_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ngfr-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/254671>