

**Goat Anti-NGFR Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1730a**Specification**

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**Goat Anti-NGFR Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P08138</a>
Other Accession	<a href="#">NP_002498</a> , <a href="#">4804</a>
Reactivity	<b>Human</b>
Predicted	<b>Mouse, Rat, Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>100ug/200ul</b>
Isotype	<b>IgG</b>
Calculated MW	<b>45183</b>

**Goat Anti-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

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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

**Goat Anti-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:<a href="http://www.uniprot.org/citations/24908487" target="\_blank">24908487</a>). 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:<a href="http://www.uniprot.org/citations/26646181" target="\_blank">26646181</a>). 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 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:<a href="http://www.uniprot.org/citations/23785138" target="\_blank">23785138</a>).

#### 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}

#### Goat Anti-NGFR Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Goat Anti-NGFR Antibody - Images



AF1730a (0.3 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### Goat Anti-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.

### **Goat Anti-NGFR Antibody - References**

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.

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.

New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. *Genes Immun*, 2010 Apr. PMID 20237496.

Role of the neurotrophin network in eating disorders' subphenotypes: body mass index and age at onset of the disease. Gratac[il]s M, et al. *J Psychiatr Res*, 2010 Oct. PMID 20219210.