

## **NGFR Antibody (C-term)**

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21671b

### **Specification**

## NGFR Antibody (C-term) - Product Information

Application WB, FC,E
Primary Accession P08138
Reactivity Human
Host Rabbit
Clonality polyclonal
Isotype Rabbit IgG
Calculated MW 45183

## NGFR Antibody (C-term) - 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 a rabbit immunized with a KLH conjugated synthetic peptide between 276-310 amino acids from the C-terminal region of human NGFR.

#### **Dilution**

WB~~1:2000 FC~~1:25

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### 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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## NGFR Antibody (C-term) - 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 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). Together with BFAR negatively regulates NF-kappa-B and JNK-related signaling pathways (PubMed:22566094).

#### **Cellular Location**

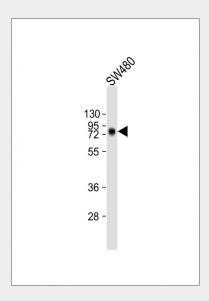
Cell membrane; Single-pass type I membrane protein. Cytoplasm. Perikaryon {ECO:0000250|UniProtKB:Q9Z0W1}. Cell projection, growth cone {ECO:0000250|UniProtKB:Q9Z0W1}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q9Z0W1}

### NGFR Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

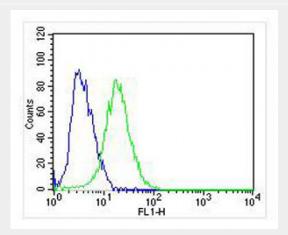
### NGFR Antibody (C-term) - Images



Anti-NGFR Antibody (C-term) at 1:2000 dilution + SW480 whole cell lysate Lysates/proteins at 20



μg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing SH-SY5Y cells stained with AP21671b (green line). The cells were fixed with 2% paraformaldehyde (10 min). The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP21671b, 1:25 dilution) for 60 min at  $37^{\circ}$ C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/400 dilution for 40 min at  $37^{\circ}$ C. Isotype control antibody (blue line) was rabbit IgG ( $1\mu$ g/1x10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed.

## NGFR Antibody (C-term) - Background

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). Low affinity receptor which can bind to NGF, BDNF, NT-3, and NT-4. Can mediate cell survival as well as cell death of neural cells. Necessary for the circadian oscillation of the clock genes ARNTL/BMAL1, PER1, PER2 and NR1D1 in the suprachiasmatic nucleus (SCN) of the brain and in liver and of the genes involved in glucose and lipid metabolism in the liver.

# NGFR Antibody (C-term) - References

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Zody M.C.,et al.Nature 440:1045-1049(2006).
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Sehgal A.,et al.Mol. Cell. Biol. 8:3160-3167(1988).