Product Datasheet

# p75 NGF Receptor Rabbit mAb

Catalog No: #48609

Package Size: #48609-1 50ul #48609-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

## Description

| | |
|---|---|
| Product Name | p75 NGF Receptor Rabbit mAb |
| Clone No. | SR4514 |
| Purification | ProA affinity purified |
| Applications | WB;IHC;ICC/IF;IP;FC |
| Species Reactivity | Hu, Ms, Rt |
| Immunogen Description | recombinant protein |
| Other Names | CD271 antibody CD271 antigen antibody Gp80 LNGFR antibody Gp80-LNGFR antibody Low affinity nerve growth factor receptor antibody Low affinity neurotrophin receptor p75NTR antibody Low-affinity nerve growth factor receptor antibody Nerve growth factor receptor antibody Nerve growth factor receptor TNFR superfamily member 16 antibody NGF receptor antibody Ngfr antibody p75 ICD antibody p75 Neurotrophin receptor antibody p75 NTR antibody p75(NTR) antibody p75NTR antibody TNFR Superfamily Member 16 antibody TNFRSF16 antibody TNR16_HUMAN antibody Tumor necrosis factor receptor superfamily member 16 antibody |
| Accession No. | Swiss-Prot#:P08138 |
| Uniprot | P08138 |
| GeneID | 4804; |
| Calculated MW | 75 kDa |
| Formulation | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| Storage | Store at -20°C |

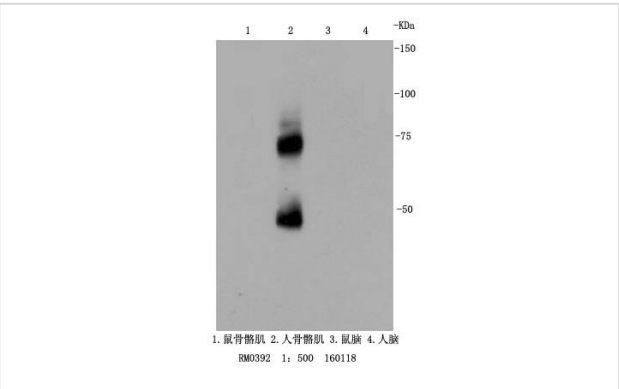
## Application Details

WB: 1:1,000-5,000

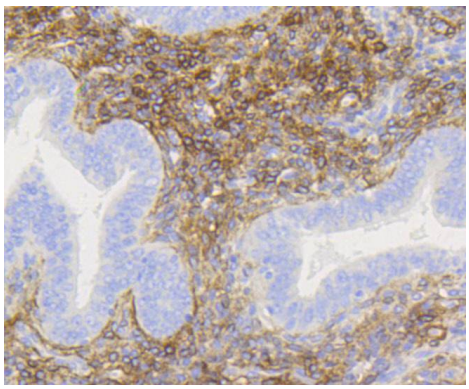
IHC: 1:50-1:200

ICC: 1:50-1:200

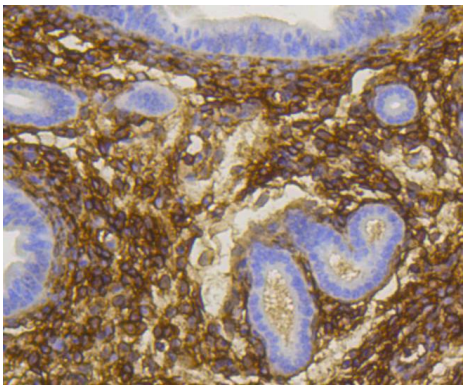
## Images



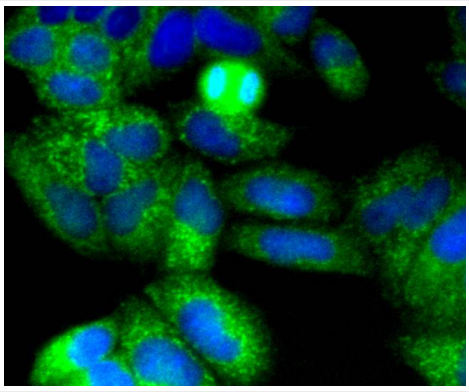

Western blot analysis of NGFR p75 on human skeletal muscle lysates using anti-NGFR p75 antibody at 1/1,000 dilution.



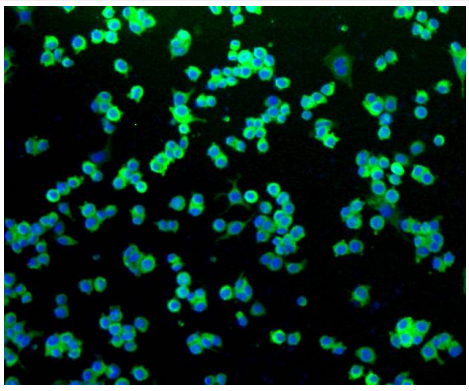
Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-NGFR p75 antibody. Counter stained with hematoxylin.



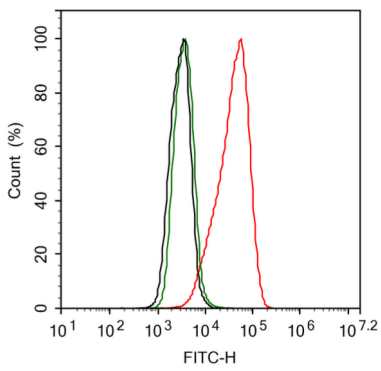
Immunohistochemical analysis of paraffin-embedded mouse uterus tissue using anti-NGFR p75 antibody. Counter stained with hematoxylin.



ICC staining NGFR p75 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining NGFR p75 in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.




Flow cytometric analysis of PC-12 cells labeling p75 NGF Receptor.
Cells were fixed and permeabilized. Then stained with the primary antibody (1:200) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

## Background

The Trk oncogene encodes a membrane-spanning protein tyrosine kinase, gp140Trk, whose expression is restricted in vivo to neurons of the sensory spinal and cranial ganglia of neural crest origin. Nerve growth factor (NGF) stimulates tyrosine phosphorylation of Trk A in neural cell lines and in embryonic dorsal root ganglia. Tyrosine phosphorylation of Trk by NGF is rapid, specific and occurs with picomolar quantities of factor, indicating that the response is mediated by physiological amounts of NGF, suggesting that Trk A participates in the primary signal transduction mechanism of NGF. An additional component of the Trk A receptor complex, NGFR p75, binds to the neurotrophic factors with low affinity but is required for efficient signaling. NGFR p75 accelerates Trk A activation and may recruit downstream effector molecules to the liganded complex.

Note: This product is for in vitro research use only