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Product datasheet for TA336800

p75 NGF Receptor (NGFR) Mouse Monoclonal Antibody [Clone ID: 2F1C2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2F1C2
Applications:	ELISA, FC, ICC/IF, WB
Recommended Dilution:	ELISA: 1:10000, Western Blot: 1:500 - 1:2000, Flow Cytometry: 1:200 - 1:400, Immunocytochemistry/ Immunofluorescence: 1:200 - 1:1000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human p75NTR/NGF Receptor expressed in E. coli. [UniProt# P08138]
Formulation:	Preservative: 0.05% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Ascites
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45 kDa
Gene Name:	nerve growth factor receptor
Database Link:	NP_002498 Entrez Gene 4804 Human P08138

View online »

Background: p75NTR/NGF Receptor, also known as 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. p75NTR/NGF Receptor plays a central role in the regulation of cell number by apoptosis in the developing CNS. During early development, activation of p75NTR/NGF Receptor by NGF induces apoptotic cell death in some neuronal cells, probably through activation of the sphingomyelinase/ceramide pathway, the ICE like proteases and the JNK pathway. In rat Schwann cells, NGF binding to p75NTR/NGF Receptor activates NF kappaB, possibly to modulate Schwann cell migration during nerve regeneration. CD271 has recently been described as being expressed in mesenchymal stem cells (bone marrow stromal cells).

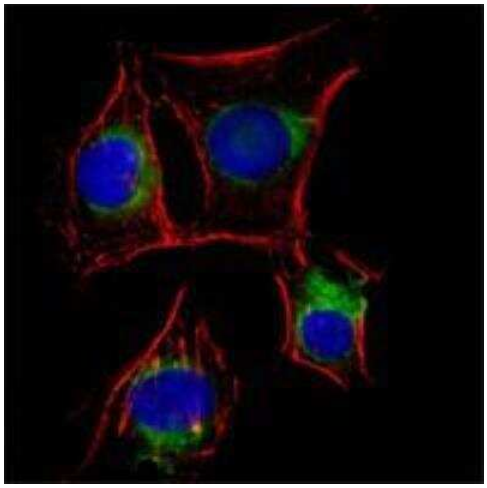
Synonyms: CD271; Gp80-LNGFR; p75(NTR); p75NTR; TNFRSF16

Note: This p75NTR/NGF Receptor (2F1C2) antibody is useful in Western Blot, ELISA, Immunocytochemistry/Immunofluorescence and Flow Cytometry.

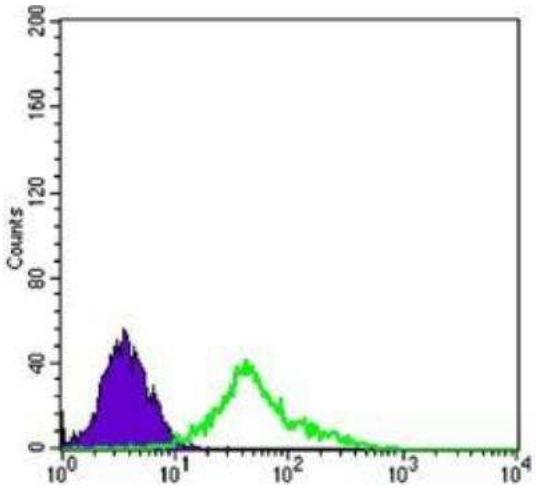
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Neurotrophin signaling pathway

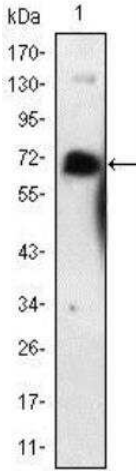
Product images:



Immunocytochemistry/Immunofluorescence: NGF R/TNFRSF16/p75NTR Antibody (2F1C2) TA336800 - Analysis of EC cells using p75NTR/NGF Receptor mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Flow Cytometry: NGF R/TNFRSF16/p75NTR Antibody (2F1C2) TA336800 - Analysis of EC cells using p75NTR/NGF Receptor mouse mAb (green) and negative control (purple).



Western Blot: NGF R/TNFRSF16/p75NTR Antibody (2F1C2) TA336800 - Analysis using p75NTR/NGF Receptor mouse mAb against NGFR-hIgGFc transfected HEK293 cell lysate.