NGFR Mouse Monoclonal Antibody

E10-20417

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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. NGFR p75 plays a central role in the regulation of cell number by apoptosis in the developing CNS. During early development, activation of NGFR p75 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 NGFR p75 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).
Catalog Number:	E10-20417
Amount:	100μg/100μl
Clone Number:	2F1C2
Species:	Mouse IgG1
MW:	45kDa
Aliases:	CD271; p75NTR; TNFRSF16; p75(NTR); Gp80-LNGFR; NGFR
Entrez Gene:	4804
Immunogen:	Purified recombinant fragment of human NGFR expressed in E. Coli.
Storage:	Store at 4℃, for long term storage, store at -20 ℃
Formulation:	Ascitic fluid containing 0.03% sodium azide.
Species Reactivities:	Human
Tested Applications:	WB,IF,FC,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.
Application notes:	WB 1/500 - 1/2000.IF1/200 - 1/1000.FC1/200 - 1/400.ELISA. Propose dilution 1/10000.
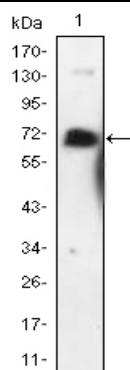
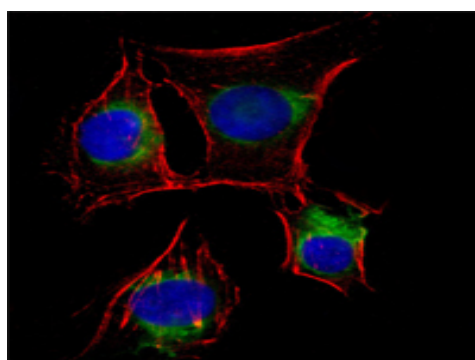Figure 1. Western blot analysis using NGFR mouse mAb against NGFR-hIgGFc transfected HEK293 cell lysate.

Figure 2.Immunofluorescence analysis of EC cells using NGFR mouse mAb (green). Red. Actin filaments have been labeled with DY-554 phalloidin. Blue. DRAQ5 fluorescent DNA dye.
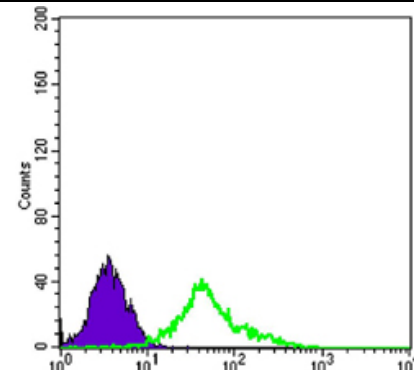
Figure 3. Flow cytometric analysis of EC cells using NGFR mouse mAb (green) and negative control (purple).

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