

**Product Specification Sheet**

Cat. #MA-20417

Mouse Monoclonal Anti Human Nerve growth factor receptor (NGFR).; Ascites

SIZE : 100 ul

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).

**Source of Antigen and Antibodies**

<b>Antigen</b>	Purified recombinant fragment of human NGFR expressed in E. Coli.
<b>Ab Host/type</b>	Balb/c mouse. IgG1 Ascetic fluid containing 0.05% sodium azide.
<b>2-Ab</b>	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
<b>-ve control IgG</b>	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

**Isotype controls:**

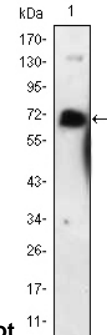
Catalog#	Product Description
20102-101	Mouse IgG1 isotype control, purified
20102-101-APC	Mouse IgG1-APC conjugate (isotype control)
20102-101-B	Mouse IgG1-Biotin conjugate (isotype control)
20102-101-F	Mouse IgG1-FITC conjugate (isotype control)
20102-101-FP	Mouse IgG1-FITC-PE conjugate (isotype control)
20102-101-HP	Mouse IgG1-HRP conjugate (isotype control)
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate (isotype control)
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)

**Suggested Dilutions:**

Western blot	1:500 – 1:2000
Immunohistochemistry (IHC):	N/A
Immunocytochemistry (ICC):	1:200 – 1:1000
Flow cytometry (FCM):	1:200 – 1:400
ELISA	1:5000 – 1:100000

**Form:** Antibodies are supplied in PBS, pH 7.5, 0.05% azide and 0.1% BSA in liquid (0.5-1 mg/ml) or lyophilized in the same buffer. Reconstitute powder in 100 ul water or PBS. Store at -20°C or below is suitable size Aliquotes.

**Shipping:** 4°C for solutions and room temp for powder.



**Western Blot**

Figure 1: Western blot analysis using NGFR mouse mAb against NGFR-hlgGfC transfected HEK293 cell lysate.

**Immunofluorescence analysis**

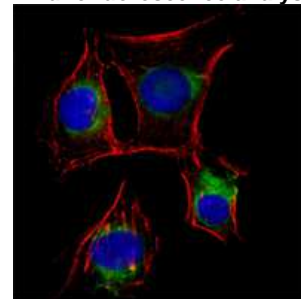


Figure 2: Immunofluorescence analysis of EC cells using NGFR mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

**Flow cytometric**

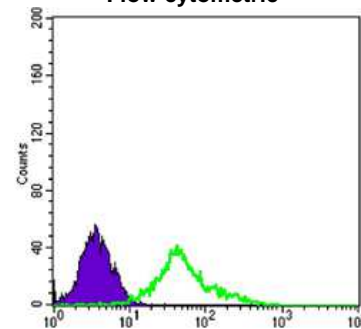


Figure 3: Flow cytometric analysis of EC cells using NGFR mouse mAb (green) and negative control (purple).

**References:**

J Invest Dermatol. 1992;99(6):734-42. Nature. 1997 Aug 7;388(6642):548-54. Exp Neurol. 2002 178(1):104-11.

*\*All products are for In vitro research use only.*

**Related material available from ADI**

MA-20417

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