

DESCRIPTION

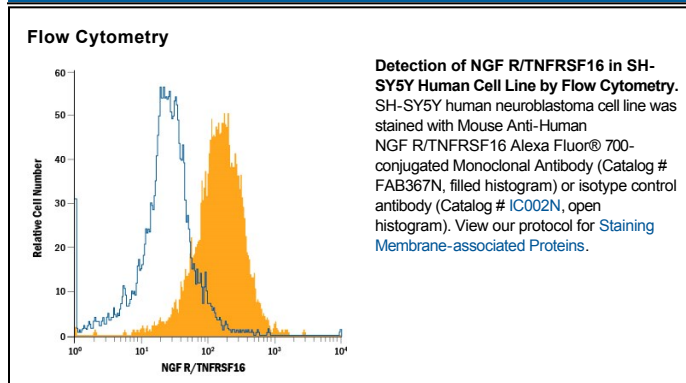
Species Reactivity	Human
Specificity	Detects human NGF R/TNFRSF16 in direct ELISAs and Western blots. In direct ELISAs, no crossreactivity with recombinant human (rh) 4-1BB, rhCD27, rhCD40, rhBAFF R, rhCD30, rhDR3, rhDR6, rhEDAR, rhFas, rhHVEM, rhGITR, rhLTR B, recombinant mouse (rm) NGF R, rhOPG, rmOX40, rhRANK, rhTAJ, rhTNF RI or rhTNF RII is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 74902
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human NGF R/TNFRSF16 Lys29-Asn250 Accession # P08138
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	5 μ L/10 ⁶ cells	See Below

DATA



PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

NGF R is a type I transmembrane protein that belongs to the tumor necrosis factor receptor family (1) and has been designated TNFRSF16. This receptor is also known as p75 NTR (Neurotrophin Receptor) because of its ability to bind at low affinity not only to NGF, but also other neurotrophins including Brain-Derived Neurotrophic Factor (BDNF), Neurotrophin-3 and Neurotrophin-4/5. NGF R is a 75 kDa protein that is expressed in neuronal axons, Schwann's cells and perineural cells of peripheral nerves (1). Neural crest stem cells have been isolated based on their surface expression of NGF R (2, 3). In addition, neuroepithelial-derived NGF R positive cells have also been demonstrated to be able to differentiate into neurons, smooth muscle and Schwann cells in culture (4). NGF R has been used as a marker to identify mesenchymal precursors as well as hepatic stellate cells (5, 6).

References:

1. Barker, P.A. *et al.* (1992) *Mol. Cell Biochem.* 110:1.
2. Stemple, D.L. *et al.* (1992) *Cell* 71:973.
3. Morrison, S.J. *et al.* (1999) *Cell* 96:737.
4. Mujtaba, T. *et al.* (1998) *Dev. Biol.* 200:1.
5. Campagnolo, L. *et al.* (2001) *Biol. Reprod.* 64:464.
6. Cassiman, D. *et al.* (2001) *Hepatology* 33:148.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc. and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.