

# Human NGFR/TNFRSF16 Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 74902 Catalog Number: FAB367S

100 µg

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human NGF R 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, recominant mouse (rm) NGF R, rhOPG, rmOX40, rhRANK, rhTAJ, rhTNF RI or rhTNF RII is observed.		
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 74902		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	<i>S. frugiperda</i> insect ovarian cell line <i>Sf</i> 21-derived recombinant human NGF R Lys29-Asn250 Accession # P08138		
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.		
	*Contains <0.1% Sodium Azido, which is not bazardous at this concentration according to CHS electifications. Pefer to the Safety Data Shee		

\*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

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 μg/10 <sup>6</sup> cells	SHSY-5Y human cell line
PREPARATION AND	TORAGE	

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

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