

Human/Mouse NGF R/TNFRSF16 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF367

DESCRIPTION	
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse NGF R/TNFRSF16 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human NGF R/TNFRSF16 Lys29-Asn250 Accession # P08138
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

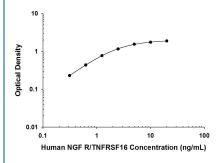
APPLICATIONS

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
Western Blot	0.1 μg/mL	Recombinant Human NGF R/TNFRSF16 Fc Chimera (Catalog # 367-NR)
Human NGF R Sandwich Immunoassay		Reagent
ELISA Capture	0.2-0.8 μg/mL	Human NGF R/TNFRSF16 Antibody (Catalog # AF367)
ELISA Detection	0.1-0.4 μg/mL	Human/Mouse NGF R/TNFRSF16 Biotinylated Antibody (Catalog # BAF367)
Standard		Recombinant Human NGF R/TNFRSF16 Fc Chimera (Catalog # 367-NR)

DATA





Human/Mouse/Rat NGF R/TNFRSF16 ELISA Standard Curve. Recombinant Human/Mouse/Rat NGF R/TNFRSF16 (Catalog # 367-NR) was serially diluted 2fold and captured by Goat Anti-Human/Mouse/Rat NGF R/TNFRSF16 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF367) coated on a Clear Polystyrene Microplate (Catalog # DY990). Goat Anti-Human/Mouse NGF R/TNFRSF16 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF367) was incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog #

PREPARATION AND STORAGE	

 Reconstitution
 Reconstitute at 0.2 mg/mL in sterile PBS.

 Shipping
 The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

p75 neurotrophin receptor, also named low affinity NGF receptor (NGF R), is a type I transmembrane protein that belongs to the tumor necrosis factor receptor family. NGF R cDNA encodes a 427 amino acid (aa) residue precursor protein with a 28 aa residue signal peptide, a 222 aa residue extracellular domain, a 22 aa residue transmembrane domain and a 155 aa residue intracellular domain. The extracellular region contains four cysteine-rich domains and binds NGF, BDNF, NT-3 and NT-4 approximately equally with low affinity. The cytoplasmic region contains a subtype 2 death domain.

NGF R expression has been shown to occur widely during development and in the adult. Expression has been detected in both neuronal and non-neuronal cells. NGF R was originally reported to function as a positive regulator of TrkA activity. NGF R has also been shown to signal by itself. Depending on its cellular environment, NGF R has now been shown to regulate cell migration, gene expression and to mediate apoptosis. Recombinant NGF R/Fc chimera binds NGF with high affinity and is a potent NGF antagonist. Naturally occurring truncated NGF R containing the extracellular domain and lacking the transmembrane or intracellular domain has been detected *in vivo* in urine, plasma and in amniotic fluid of humans and rats.

References:

- 1. Barker, P.A. and R.A. Murphy (1992) Molecular and Cellular Biochemistry 110:1.
- 2. Bamji, A.X. et al. (1998) J. Cell Biol. 140:911.
- 3. Feinstein, E. et al. (1995) Trends Biochem. Sci. 20:342.

