NGFR Antibody

Catalog No: #32596

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	NGFR Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF IP
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total NGFR protein.
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human NGFR.
Target Name	NGFR
Other Names	CD271; Gp80-LNGFR; TNFRSF16; p75(NTR); p75NTR
Accession No.	Swiss-Prot:P08138NCBI Gene ID:4804
SDS-PAGE MW	45KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

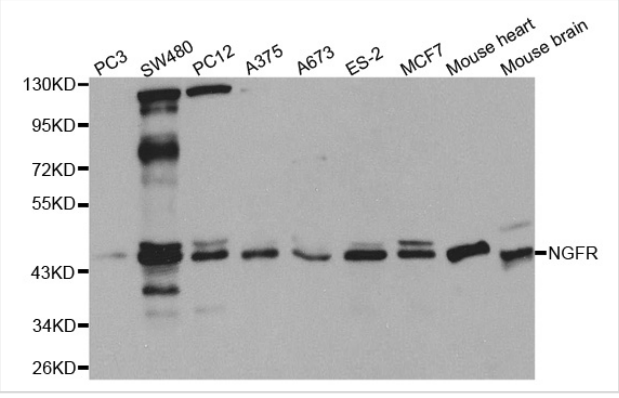
Western blotting: 1:500 - 1:2000

Immunohistochemistry: 1:50 - 1:100

Immunofluorescence: 1:50 - 1:200

Immunoprecipitation: 1:20 - 1:50

Images



Western blot analysis of extracts of various cell lines, using NGFR antibody.

Background

The p75 neurotrophin receptor (p75NTR), a member of the TNF receptor superfamily, is distinguished by multiple cysteine-rich ligand-binding domains, a single transmembrane sequence and a noncatalytic cytoplasmic domain (1). p75NTR displays paradoxical functions when acting alone or with other receptor proteins. Working in concert with Trk receptors, p75NTR recognizes neurotrophins and transmits trophic signals into the cell. Both p75NTR and TrkA are required to activate PI3K-Akt signaling, while TrkA can individually activate the MAP kinase pathway. In contrast, p75NTR, possibly through JNK, ensures appropriate apoptosis of injured neurons and improperly targeted neonatal neurons (2).The p75NTR protein undergoes sequential cleavage similar to APP and Notch. First, α-secretase removes the p75NTR ectodomain, eliminating ligand-mediated signaling. At this point, the membrane-tethered cleavage product can still fine-tune Trk-mediated trophic actions. γ-secretase cleaves within the transmembrane domain to liberate the cytoplasmic tail from its membrane anchor and allow the p75NTR intracellular domain to translocate to the nucleus (3,4).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.