

Immunotag™ Phospho-Trk A (Tyr680+Tyr681) Antibody

Antibody Specification	
Catalog No.	ITA0844
Product Description	Immunotag™ Phospho-Trk A (Tyr680+Tyr681) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-Trk A (Tyr680+Tyr681)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human Trk A around the phosphorylation site of Tyrosine 680+Tyrosine 681
Specificity	Phospho-Trk A (Tyr680+Tyr681) Antibody detects endogenous levels of Trk A only when phosphorylated at Tyrosine 680+Tyrosine 681
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	NTRK1
Accession No.	P04629

Antibody Specification

Alternate Names	gp140trk; High affinity nerve growth factor receptor; High affinity nerve growth factor receptor precursor; MTC; Neurotrophic tyrosine kinase receptor type 1; NTRK1; NTRK1_HUMAN; Oncogene TRK; p14-TrkA; p140 TrkA; p140-TrkA; Slow nerve growth; Trk A; TRK; Trk-A; TRK1; TRK1-transforming tyrosine kinase protein; Tropomyosin-related kinase A; Tyrosine kinase receptor A; Tyrosine kinase receptor;
Description	Receptor tyrosine kinase involved in the development and the maturation of the central and peripheral nervous systems through regulation of proliferation, differentiation and survival of sympathetic and nervous neurons. High affinity receptor for NGF which is its primary ligand (PubMed:1850821, PubMed:1849459, PubMed:1281417, PubMed:8325889, PubMed:15488758, PubMed:17196528, PubMed:27445338). Can also bind and be activated by NTF3/neurotrophin-3. However, NTF3 only supports axonal extension through NTRK1 but has no effect on neuron survival (By similarity). Upon dimeric NGF ligand-binding, undergoes homodimerization, autophosphorylation and activation (PubMed:1281417). Recruits, phosphorylates and/or activates several downstream effectors including SHC1, FRS2, SH2B1, SH2B2 and PLCG1 that regulate distinct overlapping signaling cascades driving cell survival and differentiation. Through SHC1 and FRS2 activates a GRB2-Ras-MAPK cascade that regulates cell differentiation and survival. Through PLCG1 controls NF-Kappa-B activation and the transcription of genes involved in cell survival. Through SHC1 and SH2B1 controls a Ras-PI3 kinase-AKT1 signaling cascade that is also regulating survival. In absence of ligand and activation, may promote cell death, making the survival of neurons dependent on trophic factors.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	87kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.