

# Immunotag™ Trk C Monoclonal Antibody

Antibody Specification	
Catalog No.	ITM0630
Product Description	Immunotag™ Trk C Monoclonal Antibody
Size	50 µg, 100 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	Trk C
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Mouse
Immunogen	Purified recombinant extracellular fragment of human Trk C (aa32-429) fused with hIgGFc tag expressed in HEK293 cells.
Specificity	Trk C Monoclonal Antibody detects endogenous levels of Trk C protein.
Purification	Affinity purification
Form	Ascitic fluid containing 0.03% sodium azide.
Gene Name	NTRK3
Accession No.	Q16288 Q6VNS1
Alternate Names	NTRK3; TRKC; NT-3 growth factor receptor; GP145-TrkC; Trk-C; Neurotrophic tyrosine kinase receptor type 3; TrkC tyrosine kinase

## Antibody Specification

Description	neurotrophic receptor tyrosine kinase 3(NTRK3) Homo sapiens This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in this gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011],
Cell Pathway/ Category	Neurotrophin,
Protein Expression	Brain,Fetal brain,
Subcellular Localization	cytoplasm,integral component of plasma membrane,membrane,integral component of membrane,receptor complex,
Protein Function	Additional isoforms seem to exist,catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,function:Receptor for neurotrophin-3 (NT-3). This is a tyrosine-protein kinase receptor. Known substrates for the trk receptors are SHC1, PI-3 kinase, and PLCG1. The different isoforms do not have identical signaling properties.,PTM:Ligand-mediated auto-phosphorylation.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 2 Ig-like C2-type (immunoglobulin-like) domains.,similarity:Contains 2 LRR (leucine-rich) repeats.,subunit:Exists in a dynamic equilibrium between monomeric (low affinity) and dimeric (high affinity) structures. Binds SH2B2. Interacts with SQSTM1 and KIDINS220.,tissue specificity:Widely expressed but mainly in nervous tissue. Isoform B is expressed at higher levels in adult brain than in fetal brain.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.