

Datasheet for ABIN746618

anti-TRKA antibody (pTyr680, pTyr681)

100 μL





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Quantity:

Target:	TRKA (NTRK1)	
Binding Specificity:	pTyr680, pTyr681	
Reactivity:	Human, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This TRKA antibody is un-conjugated	
Application:	ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffinembedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))	
Product Details		
Immunogen:	KLH conjugated synthetic phosphopeptide derived from human TrkB around the phosphorylation site of Tyr680/681	
Isotype:	IgG	
Specificity:	The phosphorylation sites Tyr680 and Tyr681 in TrkA are homologous to those of Tyr683 and Tyr683 in Mouse and Rat. These sites in TrkB are homologous to those of Tyr705 and Tyr706 in Mouse and Rat.	
Cross-Reactivity:	Human, Rat	
Predicted Reactivity:	Mouse	
Purification:	Purified by Protein A.	

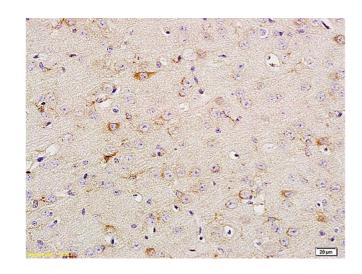
Target Details

Target:	TRKA (NTRK1)	
Alternative Name:	TrkA+ TrkB + (NTRK1 Products)	
Background:	Synonyms: MTC, TRK, TRK1, TRKA, Trk-A, p140-TrkA, High affinity nerve growth factor receptor	
	Neurotrophic tyrosine kinase receptor type 1, TRK1-transforming tyrosine kinase protein,	
	Tropomyosin-related kinase A, Tyrosine kinase receptor, Tyrosine kinase receptor A, gp140trk,	
	NTRK1	
	Background: 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, it 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. Upon dimeric NGF	
	ligand-binding, undergoes homodimerization, autophosphorylation and activation. 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. Isoform TrkA-III is resistant to NGF, constitutively activates AKT1 and NF-kappa-B and	
	is unable to activate the Ras-MAPK signaling cascade. Antagonizes the anti-proliferative NGF-	
	NTRK1 signaling that promotes neuronal precursors differentiation. Isoform TrkA-III promotes	
	angiogenesis and has oncogenic activity when overexpressed.	
Gene ID:	4914	
UniProt:	P04629	
Pathways:	RTK Signaling, Neurotrophin Signaling Pathway, cAMP Metabolic Process	
Application Details		
Application Notes:	ELISA 1:500-1000	
	IHC-P 1:200-400	
	IHC-F 1:100-500	
	IF(IHC-P) 1:50-200	
	IF(IHC-F) 1:50-200	

Application Details

Application Details			
	IF(ICC) 1:50-200		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	1 μg/μL		
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.		
Preservative:	ProClin		
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.		
Storage:	4 °C,-20 °C		
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Expiry Date:	12 months		

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain tissue labeled with Anti Phospho-TrkA (Tyr674/675) /TrkB (Tyr706/707) Polyclonal Antibody, Unconjugated (ABIN746618) at 1:200 followed by conjugation to the secondary antibody and DAB staining.