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anti-TRKA antibody (pTyr496)





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Overview

Quantity:	100 μL
Target:	TRKA (NTRK1)
Binding Specificity:	pTyr496
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRKA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human TrkA around the phosphorylation site of Tyr496
Isotype:	IgG
Specificity:	This antibody will recognize TrkB when phosphorylated at Tyr516 and TrkC when phosphorylated at Tyr516
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

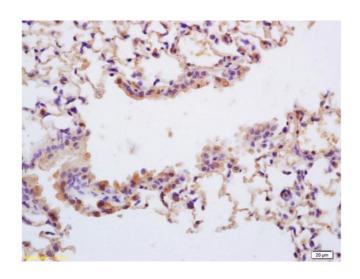
Target:	TRKA (NTRK1)
Alternative Name:	TrkA (NTRK1 Products)
Background:	Synonyms: High affinity nerve growth factor receptor, Neurotrophic tyrosine kinase receptor
	type 1, TRK1-transforming tyrosine kinase protein, Tropomyosin-related kinase A, Tyrosine
	kinase receptor, Tyrosine kinase receptor A, Trk-A, gp140trk, p140-TrkA, NTRK1, MTC, TRK,
	TRKA
	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 primar
	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:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200

Application Details

	r Research Use only
IF(IC	1.50-200
	(IHC-F) 1:50-200 (ICC) 1:50-200

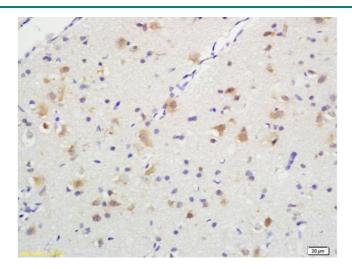
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment: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

Images



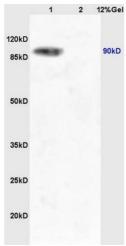
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse lung labeled with Rabbit Anti Phospho-TrkA (Tyr490) /TrkB (Tyr516) Polyclonal Antibody, Unconjugated (ABIN746603) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat brain tissue labeled with Anti-Phospho-TrkA (Tyr490) /TrkB (Tyr516) Polyclonal Antibody, Unconjugated (ABIN746603) at 1:200, followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 3. Lane 1: mouse liver lysates Lane 2: mouse lung lysates probed with Anti Phospho-TrkA (Tyr490) /TrkB (Tyr516) Polyclonal Antibody, Unconjugated (ABIN746603) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 90kD. Observed band size: 90kD.