

Trk A (Phospho-Tyr791) Antibody

Catalog No: #11646

Package Size: #11646-1 50ul #11646-2 100ul

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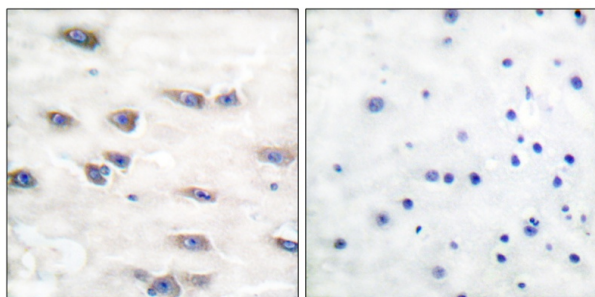
Description

Product Name	Trk A (Phospho-Tyr791) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of Trk A only when phosphorylated at tyrosine 791.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 791 (P-V-Y(p)-L-D) derived from Human Trk A.
Target Name	Trk A
Modification	Phospho
Other Names	TRKA; TRK; NTRK1; p140-TrkA;
Accession No.	Swiss-Prot#: P04629; NCBI Gene#: 4914; NCBI Protein#: NP_002520.2.
SDS-PAGE MW	140kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Immunohistochemistry: 1:50~1:100

Images



Immunohistochemical analysis of paraffin-embedded human brain tissue, using Trk A (phospho-Tyr791) antibody #11646 (left) or the same antibody preincubated with blocking peptide (right).

Background

Required for high-affinity binding to nerve growth factor (NGF), neurotrophin-3 and neurotrophin-4/5 but not brain-derived neurotrophic factor (BDNF). Known substrates for the Trk receptors are SHC1, PI 3-kinase, and PLC-gamma-1. Has a crucial role in the development and function of the nociceptive reception system as well as establishment of thermal regulation via sweating. Activates ERK1 by either SHC1- or PLC-gamma-1-dependent signaling pathway.

Tina Garofalo, J. Biol. Chem., Dec 1998; 273: 35153.

Jan Grimm, J. Cell Biol., Jul 2001; 154: 345.

Jose L. Tomsig, J Androl, May 2006; 27: 348 - 357.

VI Shifrin and BG Neel J. Biol. Chem., Dec 1993; 268: 25376 - 25384

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