

Trk A (Phospho-Tyr791) Antibody

Catalog No: #11646

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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

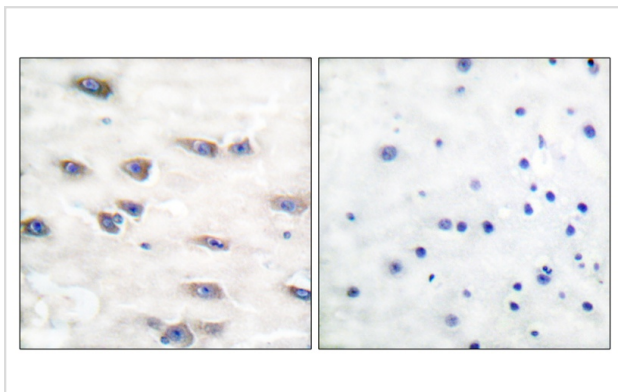
Description

| | |
|-----------------------|--|
| 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. |
| Uniprot | P04629 |
| GeneID | 4914; |
| 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