**Product Name: TrkA (14C16) Rabbit Monoclonal** 

**Antibody** 

Catalog #: AMRe19289



# **Summary**

**Production Name** TrkA (14C16) Rabbit Monoclonal Antibody

**Description** Rabbit Monoclonal Antibody

**Host** Rabbit

**Application** WB,IHC-P,IF-P **Reactivity** Human,Mouse,Rat

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Monoclonal Form Liquid

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type

**Buffer** preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

**Purification** Affinity purification

### **Immunogen**

Gene Name NTRK1

Alternative Names NTRK1; MTC; TRK; TRK1; TRKA; Trk-A; p140-TrkA;

 Gene ID
 4914.0

 SwissProt ID
 P04629.

# **Application**

**Dilution Ratio** WB 1:1000, IHC-P/IF-P 1:50

Molecular Weight 87kDa

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# **Background**

The family of Trk receptor tyrosine kinases consists of TrkA, TrkB, and TrkC. While the sequence of these family members is highly conserved, they are activated by different neurotrophins: TrkA by NGF, TrkB by BDNF or NT4, and TrkC by NT3. Neurotrophin signaling through these receptors regulates a number of physiological processes, such as cell survival, proliferation, neural development, and axon and dendrite growth and patterning. 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 (PubMed: <a href="http://www.uniprot.org/citations/1850821" target="blank">1850821</a>, PubMed: <a href="http://www.uniprot.org/citations/1849459" target=" blank">1849459</a>, PubMed:<a href="http://www.uniprot.org/citations/1281417" target=" blank">1281417</a>, PubMed:<a href="http://www.uniprot.org/citations/8325889" target=" blank">8325889</a>, PubMed:<a href="http://www.uniprot.org/citations/15488758" target=" blank">15488758</a>, PubMed:<a href="http://www.uniprot.org/citations/22649032" target=" blank">22649032</a>, PubMed:<a href="http://www.uniprot.org/citations/17196528" target=" blank">17196528</a>, PubMed:<a href="http://www.uniprot.org/citations/27445338" target=" blank">27445338</a>). 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 (By similarity). Upon dimeric NGF ligand- binding, undergoes homodimerization, autophosphorylation and activation (PubMed: <a href="http://www.uniprot.org/citations/1281417" target=" blank">1281417 </a>). 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.

#### Research Area

### **Image Data**

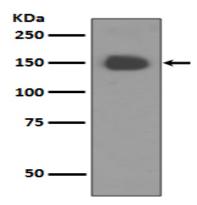
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Western blot analysis of TrkA expression in Human fetal brain tissue lysate.

### Note

For research use only.

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