

产品名称: TrkA (14C16) Rabbit Monoclonal Antibody  
产品货号: AMRe19289



## 产品概述 (Summary)

|                        |                                         |
|------------------------|-----------------------------------------|
| 产品名称 (Production Name) | TrkA (14C16) Rabbit Monoclonal Antibody |
| 描述 (Description)       | Recombinant rabbit monoclonal antibody  |
| 宿主 (Host)              | Rabbit                                  |
| 应用 (Application)       | WB,IHC,IF-P                             |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat                         |

## 产品性能 (Performance)

|                     |                                                                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                                                                                                                 |
| 修饰 (Modification)   | Unmodified                                                                                                                                                                                   |
| 同种型 (Isotype)       | IgG                                                                                                                                                                                          |
| 克隆 (Clonality)      | Monoclonal                                                                                                                                                                                   |
| 形式 (Form)           | Liquid                                                                                                                                                                                       |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                                                                                                     |
| 储存溶液 (Buffer)       | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| 纯化方式 (Purification) | Affinity purification                                                                                                                                                                        |

## 免疫原信息 (Immunogen)

|                        |                                                |
|------------------------|------------------------------------------------|
| 基因名 (Gene Name)        | NTRK1                                          |
| 别名 (Alternative Names) | NTRK1; MTC; TRK; TRK1; TRKA; Trk-A; p140-TrkA; |
| 基因 ID (Gene ID)        | 4914.0                                         |
| 蛋白 ID (SwissProt ID)   | P04629.                                        |

## 产品应用 (Application)

|                          |                                                |
|--------------------------|------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:50-1:100,IF-P 1:50-1:100 |
| 蛋白分子量 (Molecular Weight) | 87kDa                                          |

## 研究背景 (Background)

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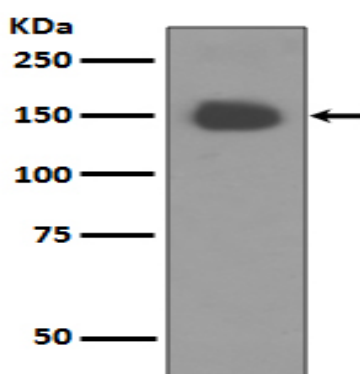
The family of Trk receptor tyrosine kinases consists of TrkA, TrkB, and TrkC. While the sequence of these family members is highly conserved, they are activated by different neurotrophins: TrkA by NGF, TrkB by BDNF or NT4, and TrkC by NT3. Neurotrophin signaling through these receptors regulates a number 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: [1850821](http://www.uniprot.org/citations/1850821)), PubMed: [1849459](http://www.uniprot.org/citations/1849459), PubMed: [1281417](http://www.uniprot.org/citations/1281417), PubMed: [8325889](http://www.uniprot.org/citations/8325889), PubMed: [15488758](http://www.uniprot.org/citations/15488758), PubMed: [22649032](http://www.uniprot.org/citations/22649032), PubMed: [17196528](http://www.uniprot.org/citations/17196528), PubMed: [27445338](http://www.uniprot.org/citations/27445338)). 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: [1281417](http://www.uniprot.org/citations/1281417)). 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.

## 研究领域 (Research Area)

MAPK\_ERK\_Growth;MAPK\_G\_Protein;Endocytosis;Apoptosis\_Inhibition;Apoptosis\_Mitochondrial;Apoptosis\_Overview;Neurotrophin;Pathways in cancer;Thyroid cancer;

## 图片 (Image Data)

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

#### 注意事项 (Note)

For research use only .