

**NTRK3 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1312a**

**Specification**

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**NTRK3 Antibody - Product Information**

Application	<b>WB, IHC, FC</b>
Primary Accession	<a href="#">O16288</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>94kDa KDa</b>

**Description**

NTRK3 (neurotrophic tyrosine kinase, receptor, type 3), it is a member of the neurotrophic tyrosine receptor kinase (NTRK) family and plays an important role in the development and maintenance of neural tissues. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in this gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers.

**Immunogen**

Purified recombinant extracellular fragment of human NTRK3 (aa32-429) fused with hIgGFc tag expressed in HEK293 cells.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**NTRK3 Antibody - Additional Information**

**Gene ID** 4916

**Other Names**

NT-3 growth factor receptor, 2.7.10.1, GP145-TrkC, Trk-C, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase, NTRK3, TRKC

**Dilution**

WB~~1/500 - 1/2000  
IHC~~1/200 - 1/1000  
FC~~1:200~~400

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NTRK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## NTRK3 Antibody - Protein Information

**Name** NTRK3

**Synonyms** TRKC

### Function

Receptor tyrosine kinase involved in nervous system and probably heart development. Upon binding of its ligand NTF3/neurotrophin-3, NTRK3 autophosphorylates and activates different signaling pathways, including the phosphatidylinositol 3-kinase/AKT and the MAPK pathways, that control cell survival and differentiation.

### Cellular Location

Membrane; Single-pass type I membrane protein.

### Tissue Location

Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher levels in adult brain than in fetal brain

## NTRK3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## NTRK3 Antibody - Images

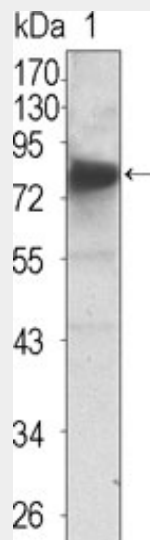


Figure 1: Western blot analysis using NTRK3 mouse mAb against extracellular domain of human

NTRK3 (aa32-429).

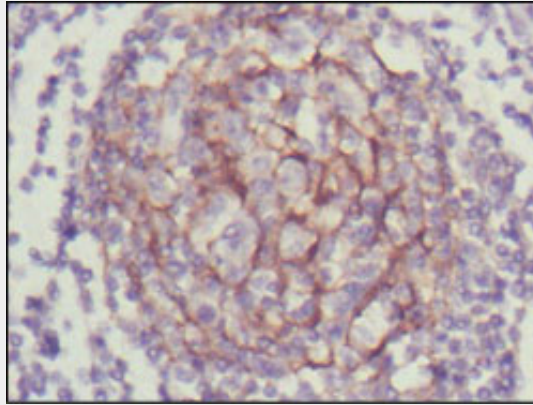


Figure 2: Immunohistochemical analysis of paraffin-embedded human lymph node using NTRK3 mouse mAb with DAB staining.

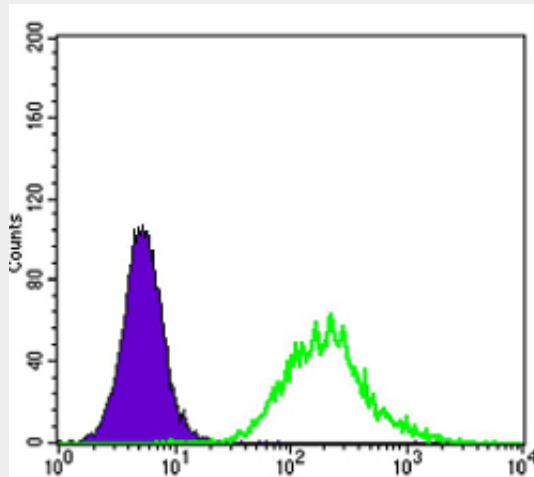


Figure 2: Flow cytometric analysis of K562 cells using MATK mouse mAb (green) and negative control (purple).

### **NTRK3 Antibody - References**

1. BMC Cancer. 2007 Oct 31;7:202.
2. J Pathol. 2002 Aug;197(5):661-7.