

Chicken Polyclonal Anti-TrkA antibody

Catalog Number: TRKA-101Y

Lot Number:

General Information

Product	TrkA Antibody
Description	Affinity Purified Tyrosine Receptor Kinase A Antibody
Accession #	GenBank: BAA34355.1
Verified Applications	ELISA, IHC, IP, WB
Species Cross Reactivity	Human, Mouse, Rat
Host	Chicken
Immunogen	Synthetic peptide taken within amino acid region 360-410 on human TrkA protein.
Alternative Nomenclature	CIPA antibody, gp140trk antibody, High affinity nerve growth factor receptor antibody, MTC antibody, Neurotrophic tyrosine kinase receptor type 1 antibody, Ntrk1 antibody, Oncogene TRK antibody, p140-TrkA antibody, Slow nerve growth antibody, TRK antibody, Trk-A antibody, TRK1 antibody, TRK1-transforming tyrosine kinase protein antibody, Tropomyosin-related kinase A antibody, Tyrosine kinase receptor A antibody

Physical Properties

Quantity	100 µg
Volume	200 µl
Form	Affinity Purified Immunoglobulins
Immunoglobulin & Concentration	.60 mg/ml IgY in antibody stabilization buffer
Storage	Store at -20°C for long term storage.

Recommended Dilutions

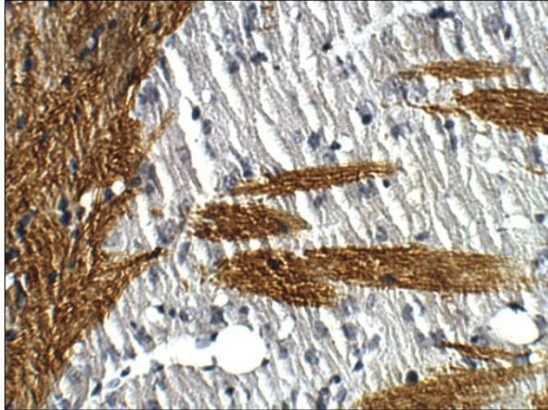
DOT Blot	1:10,000
ELISA	1:10,000
Immunohistochemistry	1:200
Immunoprecipitation	1:200
Western Blot	1:500

Related Products

Catalog

BIOTIN-Conjugated	TRKA-Y-BIOTIN
FITC-Conjugated	TRKA-Y-FITC
Antigenic Blocking Peptide	P-TRKA-Y
Western Blot Positive Control	PC-TRKA-Y

Application Verification:



Rat Spinal Cord- Tyrosine Receptor Kinase A
Primary Antibody: TRKA-101AP; 1:100 dilution in IHC Blocking Buffer.
DAB (brown) staining and Hematoxylin QS (blue) counterstain.
40X magnification on Leica DM4000. PFFE section.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

Overview:

Receptor tyrosine kinases (RTKs) are high-affinity cell surface receptors for many polypeptide growth factors, cytokines, and hormones (1). TrkA is part of a sub-family of protein kinases which includes TrkB and TrkC (2). Tyrosine Receptor Kinase A (TrkA) is a 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 nervous neurons. TrkA is a high affinity receptor for NGF, its primary ligand, but also binds and can be activated via NTF3/neurotrophin-3. NGF is important in both local and nuclear actions, regulating growth cones, motility, and expression of genes encoding biosynthesis of enzymes for neurotransmitters. In absence of ligand and activation, may promote cell death. TrkA belongs to the protein kinase superfamily, specifically the tyrosine protein kinase family.

The TrkA-selective antibodies were generated using unique peptides from an internal sequence corresponding to amino acid region 360-410 of the TrkA protein. The TrkA-selective antibodies were affinity purified against immobilized antigen based affinity chromatography and are represented as pure IgG fractions stabilized in antibody stabilization buffer. Synthetic blocking peptides and western blot positive controls are available. Antibodies can be conjugated to fluorescent probes or secondary enzymes upon request at extra charge. FabGennix carries antibodies against other tyrosine receptor kinases and related pathways; for a full product listing please visit <http://fabgennix.com>.

References

1. Robinson DR, Wu YM, Lin SF (November 2000). "The protein tyrosine kinase family of the human genome". *Oncogene* 19 (49): 5548–57. [doi:10.1038/sj.onc.1203957](https://doi.org/10.1038/sj.onc.1203957). PMID 11114734.
2. Benito-Gutiérrez E, García-Fernández J, Comella JX (February 2006). "Origin and evolution of the Trk family of neurotrophic receptors". *Mol. Cell. Neurosci.* 31 (2): 179–92. [doi:10.1016/j.mcn.2005.09.007](https://doi.org/10.1016/j.mcn.2005.09.007). PMID 16253518.

For users who may require large amounts of the products listed above, please inquire about bulk material discounts.

This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.