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Datasheet for ABIN351085

anti-NTRK3 antibody (Extracellular Domain)

3 Images

Overview

Quantity:	500 µg
Target:	NTRK3
Binding Specificity:	Extracellular Domain
Reactivity:	Rat
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This NTRK3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthetic peptide from the extracellular domain of rat TrkC conjugated to blue carrier protein was used as the antigen. The peptide is homologous in mouse, human and monkey.
Isotype:	IgG
Specificity:	Specific for TrkC.
Cross-Reactivity:	Human, Mouse, Rat
Cross-Reactivity (Details):	Other species not yet tested.
Purification:	IgG

Target Details

Target:	NTRK3
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Target Details

Alternative Name: [TrkC \(NTRK3 Products\)](#)

Background: **FUNCTION:** Receptor for neurotrophin-3 (NT-3). This is a tyrosine-protein kinase receptor. Known substrates for the trk receptors are SHC1, PI-3 kinase, and PLCG1. The different isoforms do not have identical signaling properties. **CATALYTIC ACTIVITY:** ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. **SUBUNIT:** Exists in a dynamic equilibrium between monomeric (low affinity) and dimeric (high affinity) structures. Binds SH2B2. Interacts with SQSTM1 and ARMS. **SUBCELLULAR LOCATION:** Membrane, Single-pass type I membrane protein. **TISSUE SPECIFICITY:** Widely expressed, mainly in the nervous tissue. The isoform B is expressed in a relatively large amount in the adult brain comparatively to fetal brain., Neurotrophic Receptors, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase, GP145-TrkC, Trk-C, NT-3 growth factor receptor, NTRK3

UniProt: [Q03351](#)

Pathways: [RTK Signaling](#), [Neurotrophin Signaling Pathway](#), [Regulation of Cell Size](#)

Application Details

Application Notes: IHC, WB (confirmed by recombinant protein). A concentration of 10-50 µg/ml is recommended. The optimal concentration should be determined by the end user. Not yet tested in other applications.

Restrictions: For Research Use only

Handling

Format: Lyophilized

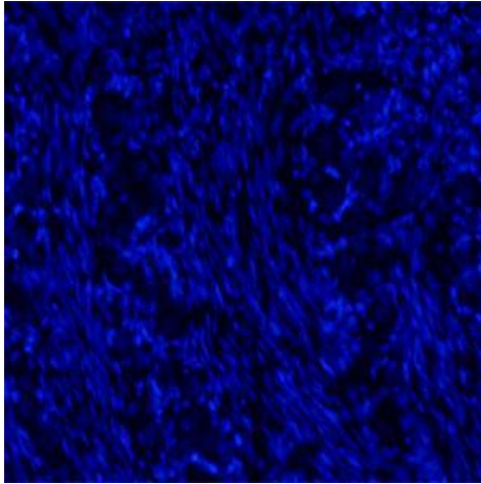
Reconstitution: Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material.

Handling Advice: Avoid freeze and thaw cycles.

Storage: 4 °C/-20 °C

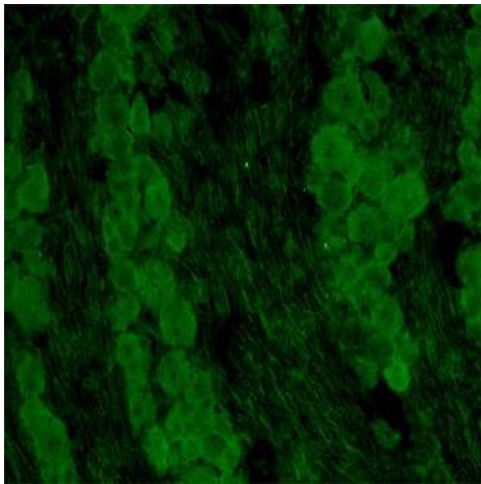
Storage Comment: Maintain the lyophilised/reconstituted antibodies frozen at -20°C for long term storage and refrigerated at 2-8°C for a shorter term. When reconstituting, glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles.

Expiry Date: 12 months



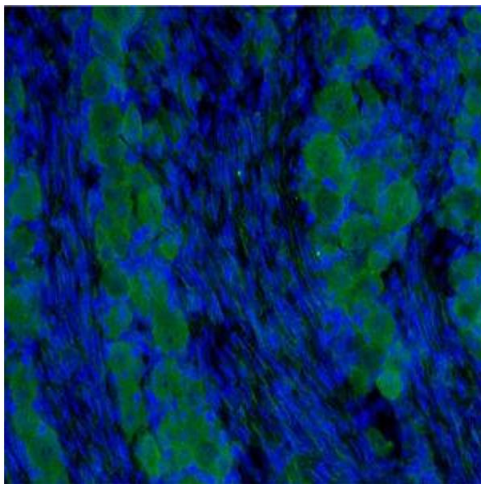
Immunofluorescence

Image 1. Rat DRG (postnatal day 7) DAPI stained.



Immunofluorescence

Image 2. IF on rat DRG (postnatal day 7) at 40 µg/ml concentration using Sheep antibody to extracellular domain of TrkC (Trk-C, NTRK3, NT-3 growth factor receptor): IgG(ABIN351085).



Immunofluorescence

Image 3. IF on rat DRG (postnatal day 7) at 40 µg/ml concentration using Sheep antibody to extracellular domain of TrkC (Trk-C, NTRK3, NT-3 growth factor receptor): IgG (ABIN351085), DAPI counterstained.