

pan-TRK Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50233

Clone# BP6210

Predicted Molecular Wt: 92kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q16620

Background:

pan-TRK, Full name of NTRK: Neurotrophic Receptor Kinase. NTRK gene includes three subtypes: NTRK1, NTRK2 and NTRK3, which are located on different chromosomes. The proteins encoded by NTRK are called TRK proteins, and NTRK1, NTRK2 and NTRK3 encode TRKA, TRKB and TRKC respectively. TRK protein is a type of receptor tyrosine kinase that contains the extracellular ligand-binding region, the transmembrane region, and the intracellular kinase region. When TRK binds to the ligand, dimerization occurs, and intracellular tyrosine kinase phosphorylation, signaling downstream.

Three TRKs proteins are rarely expressed outside nervous tissues, but the activation of three TRK receptor structures by fusion of three genes is considered to be an oncogenic factor (oncogene) in the pancancerous species.

NTRK gene fusion mutation is caused by the fusion of NTRK gene family members (NTRK1, NTRK2 and NTRK3) with another unrelated gene (usually housekeeping gene). The encoded TRK fusion protein is in a structurally activated state, which triggers a continuous signal cascade reaction, drives the malignant proliferation of cells, and causes cancer.

Subcellular location:

Cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide corresponding to residues within aa350-450 of FOXP1 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

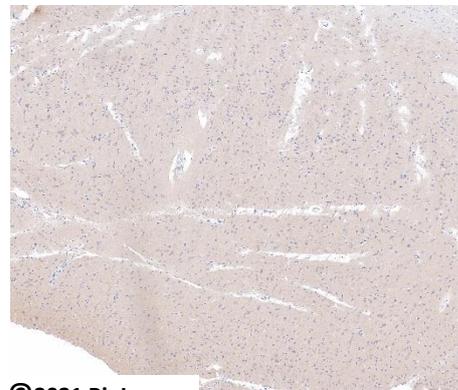
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

1. Brčić I, et al. Mod. Pathol. 2020 Aug 28.
2. Zhao M, et al. Histopathology 2020 Jun 26.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of brain labelling pan-TRK with BP6210.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.