

## Trk A (E492) polyclonal antibody

Catalog: BS1603

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

TrkA is a high affinity nerve growth factor (NGF). The Trk proto-oncogene family contains four members, TrkA, TrkB, TrkC, and TrkE, which are variably expressed throughout the central and peripheral nervous systems. TrkA binds to nerve growth factor (NGF) and autophosphorylates on tyrosine residues (Tyr490, Tyr674, Tyr675, Tyr751 and Tyr785) to activate multiple downstream effector proteins. Phosphorylation at Tyr490 is required for Shc association and subsequent activation of the Ras-MAP kinase-signaling cascade, which leads to activation of Elk-1-dependent gene transcription and neurite growth. Phosphorylations at Tyr674 and Tyr675 lie within the catalytic domain of TrkA tyrosine kinase and reflect Trk kinase activity. Additionally, phosphorylation at Tyr751 is required for PI3-kinase association and activation of the Akt signaling cascade.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 87, 140 kDa

### Swiss-Prot:

P04629

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

### Storage&Stability:

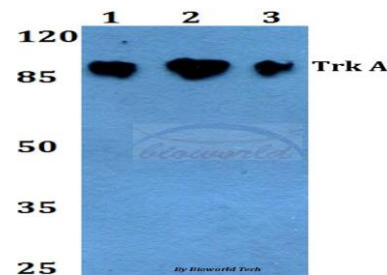
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

### Specificity:

Trk A (E492) polyclonal antibody detects endogenous levels of Trk A protein.

### DATA:

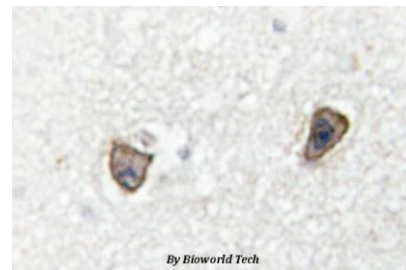


Western blot (WB) analysis of Trk A (E492) polyclonal antibody at 1:500 dilution

Lane1:MCF-7 whole cell lysate

Lane2:Raw264.7 whole cell lysate

Lane3:H9C2 whole cell lysate



Immunohistochemistry (IHC) analyzes of Trk A (E492) pAb in paraffin-embedded human brain tissue.

### Note:

For research use only, not for use in diagnostic procedure.

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