
anti-Trk

Cat #: HM1384
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Trk proteins belong to the family of the neurotrophic tyrosine kinase receptors (NTRK). They are membrane-bound receptors that, upon neurotrophin binding, phosphorylate themselves and members of the signaling pathways. Trk A, also designated Trk gp140, is expressed in neurons of the sensory spinal and cranial ganglia of neural crest origin. It participates in the primary signal transduction mechanism of NGF that may be involved in cell differentiation and in specifying sensory neuron subtypes. The brain-derived neurotrophic factor (BDNF) and, to a lesser extent, neurotrophin-3 (NT-3), but not NGF, can induce tyrosine phosphorylation of Trk B gp145. Mutations in TrkA have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation and cancer.

SPECIFICITY

This antibody reacts broadly with Trk A, Trk B and Trk C proteins of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry (including paraffin-embedded sections).

Molecular Weight of Trk: 140 kDa. Western blotting positive controls PC-12 cell lysate.

IMMUNOGEN

A peptide at the carboxy terminus of the human Trk A.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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