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NGFR p75 (m): 293T Lysate: sc-125702

BACKGROUND

The Trk oncogene encodes a membrane-spanning protein tyrosine kinase, gp140Trk, whose expression is restricted *in vivo* to neurons of the sensory spinal and cranial ganglia of neural crest origin. Nerve growth factor (NGF) stimulates tyrosine phosphorylation of gp140Trk in neural cell lines and in embryonic dorsal root ganglia. Tyrosine phosphorylation of Trk by NGF is rapid, specific and occurs with picomolar quantities of factor, indicating that the response is mediated by physiological amounts of NGF, suggesting that gp140Trk participates in the primary signal transduction mechanism of NGF. An additional component of the gp140 Trk receptor complex, NGFR p75, binds to the neurotrophic factors with low affinity but is required for efficient signaling. NGFR p75 accelerates gp140Trk activation and may recruit downstream effector molecules to the liganded complex.

REFERENCES

1. Martin-Zanca, D., et al. 1986. A human oncogene formed by the fusion of truncated Tropomyosin and protein tyrosine kinase sequences. *Nature* 319: 743-748.
2. Reinach, F.C., et al. 1986. Tissue-specific expression of the human Tropomyosin gene involved in the generation of the Trk oncogene. *Nature* 322: 648-650.
3. Martin-Zanca, D., et al. 1989. Molecular and biochemical characterization of the human Trk proto-oncogene. *Mol. Cell. Biol.* 9: 24-33.
4. Kaplan, D.R., et al. 1991. Tyrosine phosphorylation and tyrosine kinase activity of the Trk proto-oncogene product induced by NGF. *Nature* 350: 158-160.
5. Hempstead, B.L., et al. 1991. High-affinity NGF binding requires coexpression of the Trk proto-oncogene and the low-affinity NGF receptor. *Nature* 350: 678-683.
6. Klein, R., et al. 1991. The Trk proto-oncogene encodes a receptor for nerve growth factor. *Cell* 65: 189-197.
7. McKay, S.E., et al. 1996. The expression of Trk B and p75 and the role of BDNF in the developing neuromuscular system of the chick embryo. *Development* 122: 715-724.
8. Canossa, M., et al. 1996. NGFR p75 and Trk A receptors collaborate to rapidly activate a NGFR p75-associated protein kinase. *EMBO J.* 15: 3369-3376.

CHROMOSOMAL LOCATION

Genetic locus: Ngfr (mouse) mapping to 11 D.

PRODUCT

NGFR p75 (m): 293T Lysate represents a lysate of mouse NGFR p75 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

NGFR p75 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive NGFR p75 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.