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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# neuropilin (h2): 293T Lysate: sc-177623

## BACKGROUND

Neuropilin is a type I transmembrane receptor that has been implicated in aspects of axon growth and guidance and has been shown to act as a high affinity receptor for class III semaphorins and vascular endothelial growth factor (VEGF). A closely related protein, neuropilin-2, shares a common domain structure and significant homology with neuropilin and also acts as a receptor for the class III semaphorins and VEGF. Both neuropilins are involved in regulating many physiological pathways including axonal guidance and angiogenesis, however they exhibit differential expression in the adult vasculature. Neuropilin-2 is polysialylated and expressed on the surface of dendritic cells. It is also expressed by venous and lymphatic endothelium. Neuropilin is expressed predominantly by arterial endothelium.

## REFERENCES

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2. Puschel, A.W., et al. 1995. Murine semaphorin D/collapsin is a member of a diverse gene family and creates domains inhibitory for axonal extension. *Neuron* 14: 941-948.
3. Messersmith, E.K., et al. 1995. semaphorin II can function as a selective chemorepellent to pattern sensory projections in the spinal cord. *Neuron* 14: 949-959.
4. Dodd, J., et al. 1995. Axon guidance: a compelling case for repelling growth cones. *Cell* 81: 471-474.
5. Wright, D.E., et al. 1995. The guidance molecule semaphorin III is expressed in regions of spinal cord and periphery avoided by growing sensory axons. *J. Comp. Neurol.* 361: 321-333.
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7. Kolodkin, A.L., et al. 1997. Neuropilin is a semaphorin III receptor. *Cell* 90: 753-762.
8. Curreli, S., et al. 2007. Polysialylated neuropilin-2 is expressed on the surface of human dendritic cells and modulates dendritic cell-T lymphocyte interactions. *J. Biol. Chem.* 282: 30346-30356.
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## CHROMOSOMAL LOCATION

Genetic locus: NRP2 (human) mapping to 2q33.3.

## PRODUCT

neuropilin (h2): 293T Lysate represents a lysate of human neuropilin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## RESEARCH USE

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

## APPLICATIONS

neuropilin (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive neuropilin 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.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.