

## Sheep antibody to rh NTN (Neurturin): whole serum

<b>Catalogue No.:</b>	S-010-100
<b>Description:</b>	Neurturin (NTN) is a member of the GDNF family of neurotrophic factors. This protein is a potent survival factor for several populations of central and peripheral neurons in mature and developing rodents. <b>FUNCTION:</b> Supports the survival of sympathetic neurons in culture. May regulate the development and maintenance of the CNS. Might control the size of non-neuronal cell population such as haemopoietic cells. <b>SUBUNIT:</b> Homodimer; disulfide-linked. <b>SUBCELLULAR LOCATION:</b> Secreted protein. <b>DISEASE:</b> Defects in NRTN are a cause of Hirschsprung disease (HSCR). In association with mutations of RET gene, and possibly with other loci, defects in NRTN are involved in Hirschsprung disease. This genetic disorder of neural crest development is characterized by the absence of intramural ganglion cells in the hindgut, often resulting in intestinal obstruction. <b>SIMILARITY:</b> Belongs to the TGF-beta family. GDNF subfamily.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 uL
<b>Antigen:</b>	Recombinant human Neurturin (rh NTN)
<b>Other Names:</b>	Neurturin; NRTN;
<b>Accession:</b>	NRTN_HUMAN
<b>Produced in:</b>	Sheep
<b>Purity:</b>	Whole serum
<b>Applications:</b>	IHC, WB, immunoblot, 1-site ELISA. Recommended to be used at a dilution of 1:2000-3000 for immunohistochemistry and Western blot, 1: 2000 to 1:4000 for ELISA. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	Dot blot shows no cross reactivity to GDNF.
<b>Cross-reactivity:</b>	This antibody is known to react with human, mouse and rat. Not yet tested against other species.
<b>Form:</b>	Lyophilised
<b>Reconstitution:</b>	Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.
<b>Storage:</b>	After reconstitution keep aliquots at -20C for a higher stability, and at 2-8C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
<b>Expiry Date:</b>	12 months after purchase
<b>References:</b>	1. Kotzbauer, et al. (1996) Nature. 384(6608):467-70 2. Golden, et al. (1998), J Comp Neurol 398, 139-50 3. Xian, et al. (1999), Brain Res. 835(2):247-58

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Intense NTN-like immunostaining localized to the intestinal crypt and villus epithelium and muscle layers. To localize the sites of NTN protein expression, NTN immunohistochemistry was performed on 30  $\mu$ m cryo-sections of tissues fixed by Zamboni's fixative. To block endogenous peroxidase activity, sections were treated with 0.3% hydrogen peroxide in 50% ethanol for 30–60 min and washed extensively in 50% ethanol and PBS. To block non-specific binding sites, sections were treated for 90 min with TBS containing 1% bovine serum albumin (BSA) and 10% normal rabbit serum. Then sections were incubated at 4°C overnight with Sheep anti-rhNTN: whole serum (S-010-100) at 1:2000 dilution in PBS containing 0.1% Triton X-100 and 1% normal rabbit serum. After washing, the sections were incubated with a rabbit anti-sheep biotinylated IgG at 1:200. The sections were washed and incubated with ABC kit (Vector Lab) at 1:100 for 2 hours.

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