

Technical Data Sheet

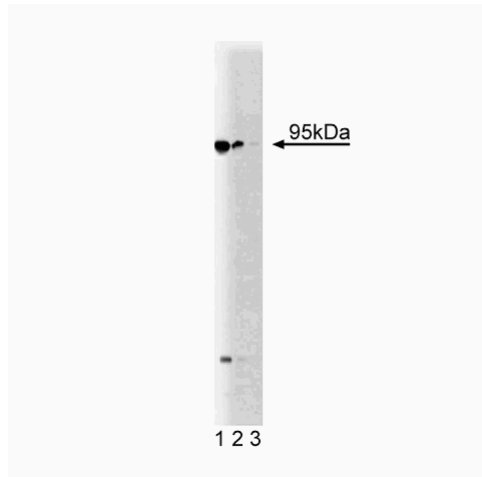
Purified Mouse Anti-Neurotensin Receptor 3

Product Information

Material Number:	612100
Alternate Name:	NTR3
Size:	50 µg
Concentration:	250 µg/ml
Clone:	48/Neurotensin Receptor 3
Immunogen:	Human Neurotensin Receptor 3 aa. 300-422
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Dog, Chicken
Target MW:	95 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Neurotensin (NT) is a neuropeptide that modulates dopaminergic transmission, triggers analgesic responses, induces hypotension, decreases gastric acid secretion, and activates lipid digestion. NT is a ligand for NT receptors, which include both G-protein coupled and non-G-protein coupled receptors. Neurotensin Receptor 3 (NTR3) is a non-G-protein coupled receptor that has a luminal domain homologous to sorting proteins, and a short cytoplasmic tail homologous to mannose-6-phosphate/IGF-II receptor. NTR3 was also identified as sortilin/gp95, a component of GLUT4 vesicles in adipocytes that has been implicated in lipoprotein lipase degradation. NTR3 mRNA is expressed in brain, skeletal muscle, heart, and adipocytes. NTR3 mature protein has 44 N-terminal amino acid residues cleaved off, which may facilitate ligand binding to the receptor. Cellular localization of NTR3 is in the Golgi compartment and vesicles, as well as on the cell surface. In addition to roles in neuropeptide and lipoprotein degradation, NTR3 may also be involved in receptor protein sorting. Thus, NTR3 is a multifunctional transmembrane protein that acts as both a intracellular sorting receptor and extracellular ligand-binding receptor.



Western blot analysis of Neurotensin Receptor 3 on a PFSK-1 cell lysate (Human neuroectodermal tumor line; ATCC CRL-2060). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-Neurotensin Receptor 3 antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611942	PFSK-1 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Mazella J, Zsürger N, Navarro V. The 100-kDa neurotensin receptor is gp95/sortilin, a non-G-protein-coupled receptor. *J Biol Chem.* 1998; 273(41):26273-26276. (Biology)
Morris NJ, Ross SA, Lane WS. Sortilin is the major 110-kDa protein in GLUT4 vesicles from adipocytes. *J Biol Chem.* 1998; 273(6):3582-3587. (Biology)
Nielsen MS, Jacobsen C, Olivecrona G, Gliemann J, Petersen CM. Sortilin/neurotensin receptor-3 binds and mediates degradation of lipoprotein lipase. *J Biol Chem.* 1999; 274(13):8832-8836. (Biology)
Petersen CM, Nielsen MS, Nykjaer A. Molecular identification of a novel candidate sorting receptor purified from human brain by receptor-associated protein affinity chromatography. *J Biol Chem.* 1997; 272(6):3599-3605. (Biology)