

Datasheet for ABIN968738 anti-Sortilin 1 antibody (AA 300-422)



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Overview

Quantity:	150 µg
Target:	Sortilin 1 (SORT1)
Binding Specificity:	AA 300-422
Reactivity:	Human, Rat, Mouse, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Sortilin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Neurotensin Receptor 3 aa. 300-422
Clone:	48-Neurotensin Receptor 3
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine), Chicken
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us 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.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	Sortilin 1 (SORT1)
Alternative Name:	Neurotensin Receptor 3 (SORT1 Products)
Background:	<p>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.</p> <p>Synonyms: NTR3</p>
Molecular Weight:	95 kDa
Pathways:	Neurotrophin Signaling Pathway

Application Details

Comment:	Related Products: ABIN968700, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

Publications

Product cited in: Nielsen, Jacobsen, Olivecrona, Gliemann, Petersen: "Sortilin/neurotensin receptor-3 binds and mediates degradation of lipoprotein lipase." in: **The Journal of biological chemistry**, Vol. 274, Issue 13, pp. 8832-6, (1999) ([PubMed](#)).

Mazella, Zsürger, Navarro, Chabry, Kaghad, Caput, Ferrara, Vita, Gully, Maffrand, Vincent: "The 100-kDa neurotensin receptor is gp95/sortilin, a non-G-protein-coupled receptor." in: **The Journal of biological chemistry**, Vol. 273, Issue 41, pp. 26273-6, (1998) ([PubMed](#)).

Morris, Ross, Lane, Moestrup, Petersen, Keller, Lienhard: "Sortilin is the major 110-kDa protein in GLUT4 vesicles from adipocytes." in: **The Journal of biological chemistry**, Vol. 273, Issue 6, pp. 3582-7, (1998) ([PubMed](#)).

Images



Western Blotting

Image 1. 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.