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## anti-Sortilin 1 antibody (AA 300-422)



Image



150 µg

Publications



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Quantity:

Purification:

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		
	Human Neurotensin Receptor 3 aa. 300-422	
Immunogen:	Human Neurotensin Receptor 3 aa. 300-422	
Immunogen: Clone:	Human Neurotensin Receptor 3 aa. 300-422 48-Neurotensin Receptor 3	
Clone:	48-Neurotensin Receptor 3	
Clone:	48-Neurotensin Receptor 3  IgG1	
Clone:  Isotype:  Cross-Reactivity:	48-Neurotensin Receptor 3  IgG1  Mouse (Murine), Rat (Rattus), Dog (Canine), Chicken	
Clone:  Isotype:  Cross-Reactivity:	48-Neurotensin Receptor 3  IgG1  Mouse (Murine), Rat (Rattus), Dog (Canine), Chicken  1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.	
Clone:  Isotype:  Cross-Reactivity:	48-Neurotensin Receptor 3  IgG1  Mouse (Murine), Rat (Rattus), Dog (Canine), Chicken  1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.  2. Please refer to us for technical protocols.	
Clone:  Isotype:  Cross-Reactivity:	48-Neurotensin Receptor 3  IgG1  Mouse (Murine), Rat (Rattus), Dog (Canine), Chicken  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	

4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

chromatography.

### Target Details

Target:	Sortilin 1 (SORT1)		
Alternative Name:	Neurotensin Receptor 3 (SORT1 Products)		
Background:	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 lumenal 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.		
	Synonyms: NTR3		
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**

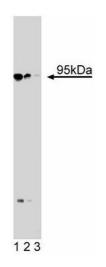
Product cited in:

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.