



# Human SORT1 blocking peptide (DAG-P1896)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	This gene encodes a protein that is a multi-ligand type-1 receptor with similarity to the yeast carboxypeptidase Y sorting receptor Vps10 protein. The encoded protein, a trans-Golgi network (TGN) transmembrane protein, binds a number of unrelated ligands that participate in a wide range of cellular processes; however, it lacks the typical features of a signalling receptor. In the TGN, furin mediates the activation of the mature binding form. The encoded protein consists of a large luminal domain, a single transmembrane segment and short C-terminal cytoplasmic tail. The luminal domain contains a cysteine-rich region similar to two corresponding segments in the yeast Vps10p; the cytoplasmic tail is similar to the corresponding segment of the cation-independent mannose 6-phosphate receptor and the tail also interacts with the VHS domains of GGA (Golgi-associated, gamma-adaptin homologous, ARF-interacting) proteins. [provided by RefSeq, Jul 2008]
<b>Specificity</b>	Expressed at high levels in brain, spinal cord, heart, skeletal muscle, thyroid, placenta and testis. Expressed at lower levels in lymphoid organs, kidney, colon and liver.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	BL
<b>Sequence Similarities</b>	Belongs to the VPS10-related sortilin family. SORT1 subfamily. Contains 9 BNR repeats.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SORT1 sortilin 1 [Homo sapiens (human)]</a>
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<b>Official Symbol</b>	SORT1
<b>Synonyms</b>	SORT1; sortilin 1; NT3; Gp95; LDLCQ6; sortilin; NTR3; glycoprotein 95; 100 kDa NT receptor; neurotensin receptor 3;
<b>Entrez Gene ID</b>	<a href="#">6272</a>
<b>mRNA Refseq</b>	<a href="#">NM_001205228.1</a>
<b>Protein Refseq</b>	<a href="#">NP_001192157.1</a>
<b>UniProt ID</b>	Q99523
<b>Chromosome Location</b>	1p13.3; 1p21.3-p13.1
<b>Pathway</b>	BDNF signaling pathway, organism-specific biosystem; Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Membrane Trafficking, organism-specific biosystem; Neurotrophin signaling pathway, conserved biosystem; organism-specific biosystem; Neurotrophin signaling pathway, conserved biosystem; p75(NTR)-mediated signaling, organism-specific biosystem; trans-Golgi Network Vesic
<b>Function</b>	enzyme binding; nerve growth factor binding; nerve growth factor receptor activity; neurotensin receptor activity, non-G-protein coupled; protein binding;