



Mouse Sortilin(SORT1) ELISA kit

Product Code	CSB-EL022412MO
Abbreviation	SORT1
Protein Biological Process 1	Developmental Protein
Target Name	sortilin 1
Uniprot No.	Q6PHU5
Alias	Gp95, NT3, neurotensin receptor 3
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Differentiation
Sample Types	serum, plasma, tissue homogenates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cardiovascular
Gene Names	Sort1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse SORT1 ELISA Kit was designed for the quantitative measurement of Mouse SORT1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL .
Target Details	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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse SORT1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	98
1:1	Range %	94-102
	Average %	94
1:2	Range %	88-98
	Average %	100
1:4	Range %	96-105
	Average %	92
1:8	Range %	86-97

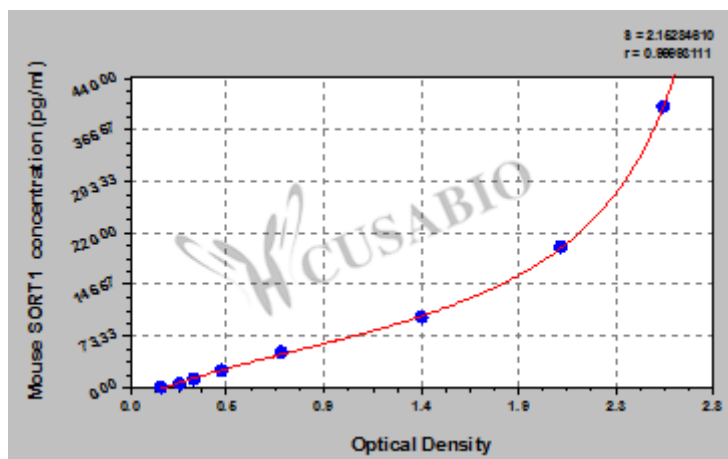
Recovery

The recovery of mouse SORT1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	95	89-99
EDTA plasma (n=4)	96	92-102

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
400	2.576	2.502	2.539	2.376
200	2.107	2.006	2.057	1.894
100	1.423	1.364	1.394	1.231
50	0.729	0.730	0.730	0.567
25	0.470	0.434	0.452	0.289
12.5	0.326	0.306	0.316	0.153
6.25	0.262	0.247	0.255	0.092
0	0.157	0.168	0.163	?

Msds

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