



Rabbit Anti-SORCS1 antibody

SL11330R

Product Name:	SORCS1
Chinese Name:	液泡蛋白分选受体SORCS抗体
Alias:	SorCS 1; SORCS; SORCS-1; SORCS receptor 1; Sortilin related VPS10 domain containing receptor 1; VPS10 domain containing receptor SorCS1; VPS10 domain receptor protein SORCS 1; VPS10 domain receptor protein SORCS; VPS10 domain receptor protein SORCS1; VPS10 domain receptor SorCS; FLJ41758; FLJ43475; FLJ44957; hSorCS; OTTHUMP00000058855; SORC1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	127kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SORCS1:561-660/1168
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	There are three sorCS genes that have diverse, partially overlapping functions in the central nervous system. In the developing and mature central nervous system, the homologous SorCS1 and SorCS2 genes and the SorCS3 gene are expressed in a

combinatorial, non-overlapping pattern. SorCS proteins show homology to the mosaic receptor SorLA and the neurotensin receptor sortilin, based on a common VPS10 domain, which is the hallmark of the SorCS receptor family. SorCS1 is a type I receptor containing a VPS10P domain and a leucine-rich domain. Alternative splicing of human SorCS1 results in four isoforms with different cytoplasmic tails and differential expression in tissues. Human SorCS1 is detected in fetal and infant brain and in fetal retina. Alternative splicing of murine SorCS1 also results in four isoforms. Murine isoform 1 is highly expressed in brain and at lower levels in heart, liver and kidney. It is detected in newborn mouse brain and in adult olfactory bulb and cerebral cortex. Murine isoform 2 is highly expressed in liver and at lower levels in heart, brain, kidney and testis.

Function:

SorCS1 belongs to the family of VPS10 domain-containing receptors (the name is derived from the yeast vacuolar protein sorting protein-10, which is involved in sorting of carboxy-peptidase Y from the Golgi apparatus to the vacuole). SorCS1 immunoreactivity is widespread in a population of neurons throughout the brain. Two different types of cellular localization were observed. Most SorCS1 immunoreactive neurons exhibit a punctate cytoplasmic staining which extends into the dendrites, whilst occasionally SorCS1 neuronal immunoreactivity is associated with the plasma membrane.

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Tissue Specificity:

Detected in fetal and infant brain and in fetal retina.

Post-translational modifications:

O-glycosylated.

Similarity:

Belongs to the VPS10-related sortilin family. SORCS subfamily.

Contains 5 BNR repeats.

Contains 1 PKD domain.

SWISS:

Q8WY21

Gene ID:

114815

Database links:

[Entrez Gene: 114815](#)Human

[Oimim: 606283](#)Human

[SwissProt: Q8WY21](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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