

Datasheet for ABIN7317454
SORCS1 Protein (His tag)



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Overview

Quantity:	100 µg
Target:	SORCS1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SORCS1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SorCS1 Protein (His Tag)
Sequence:	Ser 111-Ser 1099
Characteristics:	A DNA sequence encoding the human SORCS1 (Q8WY21-1) extracellular domain (Ser 111-Ser 1099) was fused with a polyhistidine tag at the C-terminus and a signal peptide at the N-terminus
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	SORCS1
Alternative Name:	SorCS1 (SORCS1 Products)
Background:	Background: VPS10 domain-containing receptor SorCS1, also known as SORCS1 and SORCS, is a single-pass type I membrane protein which belongs to the SORCS family and SORCS1

Target Details

subfamily. SORCS1 contains five BNR repeats and one PKD domain. SorCS1 is a member of the Vps10p-domain receptor family comprised of Sortilin, SorCS1, SorCS2, SorCS3, and SorLA. The common characteristic of these receptors is an N-terminal Vps10p domain, which either represents the only module of the luminal/extracellular moiety or is combined with additional domains. Family members play roles in protein transport and signal transduction. The individual receptors bind and internalize a variety of ligands, such as neuropeptides and trophic factors, and Sortilin and SorLA mediate trans-Golgi network-to-endosome sorting. Their prominent neuronal expression, several of the identified ligands, and results support the notion that members of this receptor family have important functions in neurogenesis, plasticity-related processes, and functional maintenance of the nervous system. Sortilin and SorLA mediate intracellular protein trafficking and sorting. SorCS1 binds platelet-derived growth factor-BB (PDGF-BB) and is expressed in isoforms differing only in their cytoplasmic domains. SorCS1 binds platelet-derived growth factor, a growth factor crucial for pericyte recruitment to the microvasculature, and may thus have a role in expanding or maintaining the islet vasculature.

Synonym: hSorCS;RP11-446H13.1

Molecular Weight: 113 kDa

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.