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Datasheet for ABIN7505631

Sortilin 1 Protein (SORT1) (AA 78-755) (His tag)

Overview

Quantity:	100 µg
Target:	Sortilin 1 (SORT1)
Protein Characteristics:	AA 78-755
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sortilin 1 protein is labelled with His tag.

Product Details

Sequence:	Ser78-Asn755
Characteristics:	A DNA sequence encoding the Human SORT1 protein (Q99523) (Ser78-Asn755) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Sortilin 1 (SORT1)
Alternative Name:	Sortilin (SORT1 Products)
Background:	Abbreviation: Sortilin,SORT1 Target Synonym: Sortilin,SORT1,100 kDa NT receptor,Glycoprotein 95,Gp95,Neurotensin receptor 3,NT3,NTR3 Background: Functions as a sorting receptor in the Golgi compartment and as a clearance

Target Details

receptor on the cell surface. Required for protein transport from the Golgi apparatus to the lysosomes by a pathway that is independent of the mannose-6-phosphate receptor (M6PR). Lysosomal proteins bind specifically to the receptor in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelysosomal compartment where the low pH mediates the dissociation of the complex. The receptor is then recycled back to the Golgi for another round of trafficking through its binding to the retromer. Also required for protein transport from the Golgi apparatus to the endosomes. Promotes neuronal apoptosis by mediating endocytosis of the proapoptotic precursor forms of BDNF (proBDNF) and NGFB (proNGFB). Also acts as a receptor for neurotensin. May promote mineralization of the extracellular matrix during osteogenic differentiation by scavenging extracellular LPL. Probably required in adipocytes for the formation of specialized storage vesicles containing the glucose transporter SLC2A4/GLUT4 (GLUT4 storage vesicles, or GSVs). These vesicles provide a stable pool of SLC2A4 and confer increased responsiveness to insulin. May also mediate transport from the endoplasmic reticulum to the Golgi.

Molecular Weight: Calculated MW: 74.47 kDa
 Observed MW: 90 kDa

UniProt: [Q99523](#)

Pathways: [Neurotrophin Signaling Pathway](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

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.

Expiry Date: 12 months