

Active Recombinant Human SORL1 Protein, His-tagged

Cat. No. SORL1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SorLA (Ser82-Pro753) Protein with a C-terminal 6-His tag was expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	82-753
Description	This gene encodes a mosaic protein that belongs to at least two families: the vacuolar protein sorting 10 (VPS10) domain-containing receptor family, and the low density lipoprotein receptor (LDLR) family. The encoded protein also contains fibronectin type III repeats and an epidermal growth factor repeat. The encoded preproprotein is proteolytically processed to generate the mature receptor, which likely plays roles in endocytosis and sorting. Mutations in this gene may be associated with Alzheimer's disease.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human SorLA at 2 µg/mL (100 µL/well) can bind Recombinant Human beta-NGF with an ED50 of 0.1-0.5 µg/mL.
Molecular Mass	76 kDa
N-terminal Sequence Analysis	Ser82

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Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	12 months from date of receipt, ≤ -20 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 1 mg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	SORL1 sortilin related receptor 1 [Homo sapiens (human)]
Official Symbol	SORL1
Synonyms	SORL1; sortilin related receptor 1; LR11; LRP9; SORLA; gp250; SorLA-1; C11orf32; sortilin-related receptor; LDLR relative with 11 ligand-binding repeats; low-density lipoprotein receptor relative with 11 ligand-binding repeats; mosaic protein LR11; sortilin-related receptor, L(DLR class) A repeats containing; sorting protein-related receptor containing LDLR class A repeats
Gene ID	6653
mRNA Refseq	NM_003105

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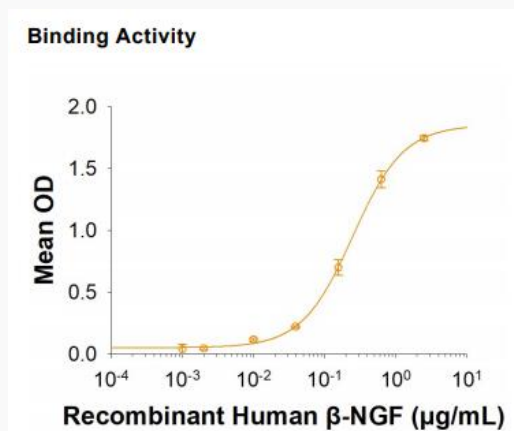
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Protein Refseq NP_003096

MIM 602005

UniProt ID Q92673

Binding Activity



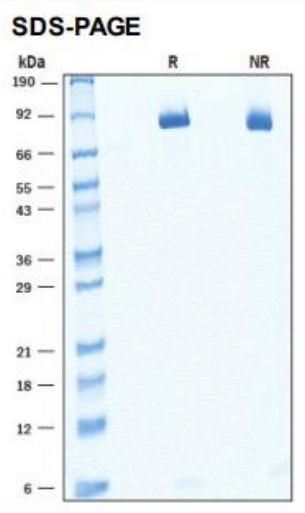
When Recombinant Human SorLA is immobilized at 2 $\mu\text{g/mL}$, Recombinant Human beta -NGF binds with an ED50 of 0.1-0.5 $\mu\text{g/mL}$.

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SDS-PAGE



2 µg/lane of Recombinant Human SorLA was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands 85 - 99 kDa.