

## Recombinant human Sorting nexin-3

Catalog No: #AP71709



Package Size: #AP71709-1 20ug #AP71709-2 100ug #AP71709-3 1mg

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## Description

Product Name	Recombinant human Sorting nexin-3
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:3-162aaSequence Info:Full Length
Other Names	Protein SDP3
Accession No.	O60493
Uniprot	O60493
GeneID	8724;
Calculated MW	45.6 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	ETVADTRRLITKPNLNDAYGPPSNFLEIDVSNPQTVGVGRGRFTTYEIRVKTNLPIFKLKESTVRRRYSDFEW LRSELERESKVVVPLPGKAFLRQLPFRGDDGIFDDNFIEERKQGLEQFINKVAGHPLAQNERCLHMFLQDEII DKSYTPSKIRHA
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Phosphoinositide-binding protein required for multivesicular body formation. Specifically binds phosphatidylinositol 3-phosphate (PtdIns(P3)). Also can bind phosphatidylinositol 4-phosphate (PtdIns(P4)), phosphatidylinositol 5-phosphate (PtdIns(P5)) and phosphatidylinositol 3,5-biphosphate (PtdIns(3,5)P2) . Plays a role in protein transport between cellular compartments. Together with RAB7A facilitates endosome mbrane association of the retromer cargo-selective subcomplex (CSC,VPS). May in part act as component of the SNX3-retromer complex which mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway . Promotes stability and cell surface expression of epithelial sodium channel (ENAC) subunits SCNN1A and SCNN1G . Not involved in EGFR degradation. Involved in the regulation of phagocytosis in dendritic cells possibly by regulating EEA1 recruitment to the nascent phagosomes . Involved in iron homeostasis through regulation of endocytic recycling of the transferrin receptor TFRC presumably by delivering the transferrin:transferrin receptor complex to recycling endosomes; the function may involve the CSC retromer subcomplex . In the case of Salmonella enterica infection plays arole in maturation of the Salmonella-containing vacuole (SCV) and promotes recruitment of LAMP1 to SCVs .

## References

Identification of a family of sorting nexin molecules and characterization of their association with receptors.Haft C.R., de la Luz Sierra M., Barr V.A., Haft D.H., Taylor S.I.Mol. Cell. Biol. 18:7278-7287(1998)Research Topic:Transport

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Note: This product is for in vitro research use only