Recombinant Human Vps20-Associated 1 Homolog (S. cerevisiae), His-tagged

Cat. No. VTA1-5554H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VTA1 protein, fused to His-tag at N-terminus,was expressed in E.coli and purified by using conventionalchromatography techniques.
Species	Human
Description	VTA1(Vps20-associated 1 homolog), also known as LIP5 (LYST-interacting protein5), DRG1 (Dopamine-responsive protein DRG-1), SBP1 (SKD1 bindingprotein 1),belongs to the VTA1 family. This protein Involved in the endosomalmultivesicular bodies (MVB) pathway. MVBs contain intraluminal vesicles(ILVs) that are generated by invagination and scission from the limitingmembrane of the endosome and mostly are delivered to lysosomes enablingdegradation of membrane proteins, such as stimulated growth factor receptors,lysosomal enzymes and lipids. Also, VTA1 is known to interact with CHMP1B,CHMP2A, CHMP5, VPS4B, KIAA0174 (IST1) and possibly CHMP3.
Form	Liquid.In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl.
Molecular Weight	36.5kDa (331aa),confirmed by MALDI-TOF.
Purity	> 95%by SDS - PAGE
Concentration	1mg/ml(determined by Bradford assay)

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Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHMAALAP LPPLPAQFKS IQHHLRTAQE HDKRDPVVAY YCRLYAMQTGMKIDSKTPEC RKFLSKLMDQ LEALKKQLGD NEAITQEIVG CAHLENYALK MFLYADNEDR AGRFHKNMIKSFYTASLLID VITVFGELTD ENVKHRKYAR WKATYIHNCL KNGETPQAGP VGIEEDNDIE ENEDAGAASLPTQPTQPSSS STYDPSNMPS GNYTGIQIPP GAHAPANTPA EVPHSTGVAS NTIQPTPQTI PAIDPALFNTISQGDVRLTP EDFARAQKYC KYAGSALQYE DVSTAVQNLQ KALKLLTTGR E
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Endocytosis; EndosomalSorting Complex Required For Transport (ESCRT); Membrane Trafficking

GENE INFORMATION

Gene Name	VTA1 Vps20-associated 1 homolog(S. cerevisiae) [Homo sapiens]
Official Symbol	VTA1
Synonyms	VTA1;Vps20-associated 1 homolog (S. cerevisiae); DRG1; LIP5; SBP1;DRG-1; My012; C6orf55; HSPC228; vacuolar protein sorting-associatedprotein VTA1 homolog; SKD1-binding protein 1; LYST-interacting protein 5; dopamine-responsivegene 1 protein; homolog of mouse SKD1-binding protein 1
Gene ID	51534
mRNA Refseq	NM_016485
Protein Refseq	NP_057569

MIM	610902
UniProt ID	Q5TGM0
Chromosome Location	6q24.1

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