Product Data Sheet: VPS35

Cat. No:	AB-84320
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	vacuolar protein sorting 35 homolog(S. cerevisiae)
Reactivity:	Hu, Ms, Rt
Applications:	Western Blot: 1:200-1:2000 Immunoprecipitation: 1:200-1□2000 Immunofluorescence: 1:10-1:100
Molecular Weight:	92kDa
Purification:	Aff. Pur.
Synonyms:	DKFZp434E1211, DKFZp434P1672, FLJ10752, FLJ13588, FLJ20388, hVPS35, Maternal embryonic 3, MEM3, Vesicle protein sorting 35, VPS35
Background:	Acts as component of the retromer cargo-selective complex(CSC). The CSC is believed to be the core functional component of retromer or respective retromer complex variants acting to prevent missorting of selected transmembrane cargo proteins into the lysosomal degradation pathway. The recruitment of the CSC to the endosomal membrane involves RAB7A and SNX3. The CSC seems to associate with the cytoplasmic domain of cargo proteins predominantly via VPS35; however, these interactions seem to be of low affinity and retromer SNX proteins may also contribute to cargo selectivity thus questioning the classical function of the CSC. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network(TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX3-retromer mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway. The SNX27-retromer is believed to be involved in endosome-to-plasma membrane trafficking and recycling of a broad spectrum of cargo proteins. The CSC seems to act as recruitment hub for other proteins, such as the WASH complex and TBC1D5(Probable). Required for retrograde transport of lysosomal enzyme receptor IGF2R and SLC11A2. Required to regulate transcytosis of the polymeric immunoglobulin receptor(pIgR-pIgA)(PubMed:15078903, PubMed:15247922, PubMed:20164305). Required for endosomal localization of FAM21C(PubMed:22070227). Mediates the association of the CSC with the WASH complex via FAM21(PubMed:22070227, PubMed:24980502, PubMed:24819384). Required for the endosomal localization of TBC1D5(PubMed:20923837).
Form:	Liquid
Buffer:	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage:	T -20℃ for 12 months. Avoid repeated freeze / thaw cycles.

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