VPS26 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VPS26, Polyclonal Antibody
Full Product Name	VPS26 Antibody BIOTIN-Conjugated
Product Gene Name	anti-VPS26 antibody
Product Synonym Names	FLJ12930; FLJ12930; HB 58; Hbeta 58; Hbeta 58 homolog; MGC94168; PEP 8A; Vacuolar protein sorting 26 A; Vacuolar protein sorting 26 homolog A yeast; Vacuolar protein sorting associated protein 26A; Vesicle protein sorting 26A; VPS 26; VPS 26A antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	BIOTIN-Conjugated
Concentration	0.56 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: VPS26 (MBS5400228) Positive Control: VPS26 (MBS543374)
Antibody/Peptide Pairs	VPS26 peptide (MBS544649) is used for blocking the activity of VPS26 antibody (MBS5400228)
Molecular Weight	28,938 Da
OMIM	605506
3D Structure	ModBase 3D Structure for O75436
Immunogen	Synthetic peptide taken within amino acids 315-375 on human VPS26 protein.
Expression	Down-regulated in Alzheimer disease. No polymorphism or variant is however associated with Alzheimer disease for VPS26A.
Molecular Function	protein transporter activity
Subcellular Location	Cytoplasm, Endosome membrane, Preipheral membrane protein (Note: Localizes to tubular profiles adjacent to endosomes. Predominantly found in early not late endosomes)
Applications Tested/Suitable for anti-VPS26 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-VPS26 antibody	Dot Blot: 1:10,000 ELISA: 1:10,000 Immunohistochemistry: 1:100 Immunoprecipitation: 1:200 Western Blot: 1:500
Related Product Information for anti-VPS26 antibody	BIOTIN-Conjugated Vacuolar protein sorting-associated protein 26A Antibody 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.

Other Notes	Small volumes of anti-VPS26 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VPS26 purchase	MBS5400228 is an antibody targeting VPS26. Also known as VPS26 Antibody BIOTIN-Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VPS26. It may not necessarily be applicable to this product.

NCBI GI #	25453454
NCBI GeneID	9559
NCBI Accession #	O75436.2
UniProt Primary Accession #	O75436
UniProt Secondary Accession #	Q8TBH4; Q9H982; A8MZ56; B2RDD3
UniProt Related Accession #	O75436
NCBI Official Full Name	Vacuolar protein sorting-associated protein 26A
NCBI Official Synonym Full Names	VPS26, retromer complex component A
NCBI Official Symbol	VPS26A
NCBI Official Synonym Symbols	HB58; PEP8A; VPS26; Hbeta58
UniProt Protein Name	Vacuolar protein sorting-associated protein 26A
UniProt Synonym Protein Names	Vesicle protein sorting 26A; hVPS26
Protein Family	Vacuolar protein sorting-associated protein
UniProt Gene Name	VPS26A
UniProt Synonym Gene Names	VPS26; hVPS26
UniProt Entry Name	VP26A_HUMAN
NCBI Protein Information	vacuolar protein sorting-associated protein 26A
NCBI Summary for VPS26	This gene belongs to a group of vacuolar protein sorting (VPS) genes. The encoded protein is a component of a large multimeric complex, termed the retromer complex, involved in retrograde transport of proteins from endosomes to the trans-Golgi network. The close structural similarity between the yeast and human proteins that make up this complex suggests a similarity in function. Expression studies in yeast and mammalian cells indicate that this protein interacts directly with VPS35, which serves as the core of the retromer complex. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for VPS26	VPS26A: Essential component of the retromer complex, a complex required to retrieve lysosomal enzyme receptors (IGF2R and M6PR) from endosomes to the trans-Golgi network. Also required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA). Belongs to the VPS26 family. Protein type: Vesicle Chromosomal Location of Human Ortholog: 10q21.1 Cellular Component: cytosol; early endosome; endosome; endosome membrane; intracellular membrane-bound organelle; retromer complex; vesicle Molecular Function: protein binding; protein transporter activity Biological Process: intracellular protein transport; regulation of macroautophagy; retrograde transport, endosome to Golgi; Wnt receptor signaling pathway

Research Articles on VPS26	**1.** Mutagenesis studies coupled with coimmunoprecipitations revealed that retromer-mediated trafficking requires the Env cytoplasmic tail that we show binds directly to retromer components Vps35 and Vps26.
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