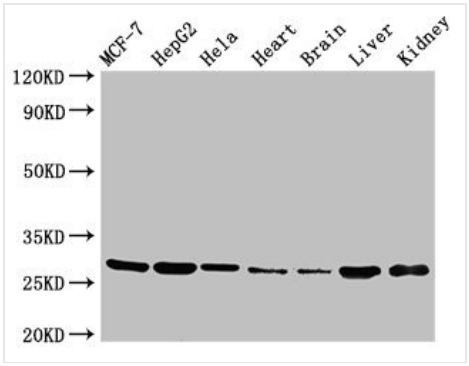
VPS29 Antibody – Rabbit Polyclonal

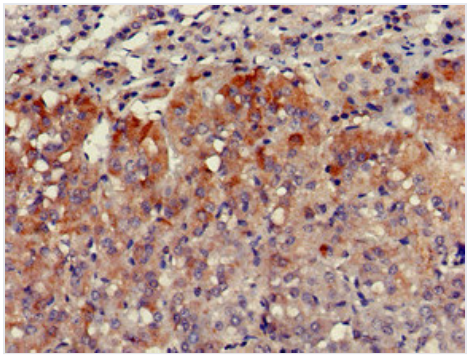
PRODUCT OVERVIEW

Product Name	VPS29, Polyclonal Antibody
Full Product Name	VPS29 Antibody
Product Gene Name	anti-VPS29 antibody
Product Synonym Names	Vacuolar protein sorting-associated protein 29; hVPS29; PEP11 homolog; Vesicle protein sorting 29; VPS29; DC15; DC7; MDS007
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: VPS29 (MBS7053341) HRP Conjugated Antibody: VPS29 (MBS7053342)
Matching Pairs	Unconjugated Antibody: VPS29 (MBS7053341) FITC Conjugated Antibody: VPS29 (MBS7053343)
Matching Pairs	Unconjugated Antibody: VPS29 (MBS7053341) Biotin Conjugated Antibody: VPS29 (MBS7053344)
Molecular Weight	20,927 Da
OMIM	AF193795 mRNA
3D Structure	ModBase 3D Structure for Q9UBQ0
Immunogen	Recombinant Human Vacuolar protein sorting-associated protein 29 protein (68-145AA)
Conjugation	Non-conjugated
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-VPS29 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-VPS29 antibody	WB: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:50-1:200

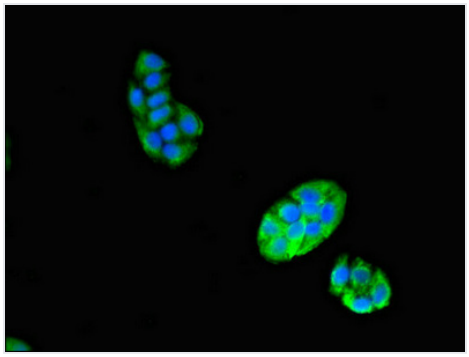
Related Product Information for anti-VPS29 antibody	Acts as component of the retromer cargo-selective complex (CSC). The CSC is believed to be the core functional component of retromer or respective retromer complex variants acting to prevent missorting of selected transmembrane cargo proteins into the lysosomal degradation pathway. The recruitment of the CSC to the endosomal membrane involves RAB7A and SNX3. 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. Required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA) (Probable). Involved in GLUT1 endosome-to-plasma membrane trafficking; the function is dependent of association with ANKRD27 (PubMed:24856514).
Other Notes	Small volumes of anti-VPS29 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 VPS29 purchase	MBS7053341 is an antibody targeting VPS29. Also known as VPS29 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-VPS29 antibody
Western BlotPositive WB detected in: MCF-7 whole cell lysate,HepG2 whole cell lysate,Hela whole cell lysate,Mouse heart tissue,Mouse brain tissue,Rat liver tissue,Rat kidney tissueAll lanes: VPS29 antibody at 3.4ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 21 KDaObserved band size: 28 KDa



Immunohistochemistry (IHC) of anti-VPS29 antibody
Immunohistochemistry of paraffin-embedded human adrenal gland tissue using MBS7053341 at dilution of 1:100



Immunohistochemistry (IHC) of anti-VPS29 antibody
Immunofluorescent analysis of PC3 cells using MBS7053341 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VPS29. It may not necessarily be applicable to this product.

NCBI GI #	7706441
NCBI GeneID	51699
NCBI Accession #	NP_057310.1
UniProt Primary Accession #	Q9UBQ0

UniProt Secondary Accession #	Q502Y5; Q6FIF8; Q6IAH3; Q9H0W0; Q9NRP1; Q9NRU7
UniProt Related Accession #	Q9UBQ0
GenBank Nucleotide #	NM_016226.4
NCBI Official Full Name	vacuolar protein sorting-associated protein 29 isoform 1
NCBI Official Synonym Full Names	VPS29, retromer complex component
NCBI Official Symbol	VPS29
NCBI Official Synonym Symbols	DC7; DC15; PEP11
UniProt Protein Name	Vacuolar protein sorting-associated protein 29
UniProt Synonym Protein Names	PEP11 homolog; Vesicle protein sorting 29
Protein Family	Vacuolar protein sorting-associated protein
UniProt Gene Name	VPS29
UniProt Synonym Gene Names	hVPS29
NCBI Protein Information	vacuolar protein sorting-associated protein 29
NCBI Summary for VPS29	This gene belongs to a group of vacuolar protein sorting (VPS) genes that, when functionally impaired, disrupt the efficient delivery of vacuolar hydrolases. The protein encoded by this gene is a component of a large multimeric complex, termed the retromer complex, which is involved in retrograde transport of proteins from endosomes to the trans-Golgi network. This VPS protein may be involved in the formation of the inner shell of the retromer coat for retrograde vesicles leaving the prevacuolar compartment. Alternative splice variants encoding different isoforms and representing non-protein coding transcripts have been found for this gene. [provided by RefSeq, Aug 2013]
UniProt Comments for VPS29	VPS29: 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). Has low protein phosphatase activity towards a serine-phosphorylated peptide derived from IGF2R (in vitro). Belongs to the VPS29 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.3.3; Protein phosphatase, Ser/Thr (non-receptor); Vesicle Chromosomal Location of Human Ortholog: 12q24.11 Cellular Component: cytoplasm; cytosol; endosome; intracellular membrane-bound organelle; retromer complex Molecular Function: protein binding; protein transporter activity Biological Process: intracellular protein transport; retrograde transport, endosome to Golgi; Wnt receptor signaling pathway
Research Articles on VPS29	**1.** This study demonstrated that Genetic variability of VPS29 in parkinsonism.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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