Mouse VPS35 Monoclonal Antibody | anti-VPS35 antibody

VPS35 Antibody, Clone 5A9: RPE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA27681	**Mouse**	**Human, Mouse, Rat**	**Western Blot, Immunocytochemistry, Immunofluorescence, Immunoprecipitation**

PRODUCT SYNONYMS

VPS35; Monoclonal Antibody; VPS35 Antibody; Clone 5A9: RPE; Mouse Anti-Human VPS35 Monoclonal IgG1; VPS35 Antibody: RPE; Vacuolar protein sorting-associated protein 35; MEM3; PARK17; VPS35 retromer complex component; maternal-embryonic 3; vesicle protein sortin 35; TCCCTA00141; FLJ10752; anti-VPS35 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5A9
Specificity	Detects ~92 kDa.
Purity/Purification	Protein G Purified
Form/Format	PBS pH 7.4, 50% Glycerol, 0.09% Sodium Azide
Concentration	1 mg/ml (varies by lot)
Sequence Length	796
Applicable Applications for anti-VPS35 antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), IP (Immunoprecipitation)
Application Notes	WB: 1:1000 ICC/IF: 1:200 IP: 1:200
Immunogen Species	Human
Immunogen	Full length recombinant human VSP35
Conjugate	RPE
Cellular Localization	Endosome; Lysosome; Vesicles; Cytoplasm; Membrane
Tissue Specificity	Ubiquitous. Highly expressed in brain, colon, heart, kidney, ovary, placenta, skeletal muscle, small intestine, testis, thymus.
Preparation and Storage	Store at -20 degree C.

IMAGES

IP (Immunoprecipitation)
Immunoprecipitation analysis using Mouse Anti-VPS35 Monoclonal Antibody, Clone 5A9. Tissue: embryonic fibroblast. Species: Mouse. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody. Three amounts of (3, 1 and 0.3 ug) were non-covalently coupled to 10uL of A/G sepharose beads for 1 hour at 4 degree C and next incubated with 250ug of MEF lysate for 2 hours at 4 degree C.

IP (Immunoprecipitation)
Immunoprecipitation analysis using Mouse Anti-VPS35 Monoclonal Antibody, Clone 5A9. Tissue: A549 cells. Species: Human. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody. Three amounts of (3, 1 and 0.3 ug) were non-covalently coupled to 10uL of A/G sepharose beads for 1 hour at 4 degree C and next incubated with 250ug of A549 lysate for 2 hours at 4 degree C.

WB (Western Blot)
Western Blot analysis of Human SH-SY5Y showing detection of VPS35 protein using Mouse Anti-VPS35 Monoclonal Antibody, Clone 5A9. Lane 1: Molecular Weight Ladder. Lane 2: SH-SY5Y (10 ug). Load: 10 ug. Block: 5% Skim Milk powder in TBST. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody at 1:1000 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:4000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT.

WB (Western Blot)
Western Blot analysis of Human, Mouse A549, MEF showing detection of VPS35 protein using Mouse Anti-VPS35 Monoclonal Antibody, Clone 5A9. Lane 1: Molecular Weight Ladder. Lane 2: VPS35 KO A549 cells. Lane 3: mouse embryonic fibroblast cells.. Load: 8 ug each A549 and MEF. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody at 1:5 (tissue culture supernatant). Secondary Antibody: Donkey anti-mouse IRDye 800CW at 1:25000 in TBS-T.

IP (Immunoprecipitation)
Co-Immunoprecipitation analysis of known interactors of VPS35 using Mouse Anti-VPS35 Monoclonal Antibody, Clone 5A9. Tissue: A549 cells. Species: Human. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody.

IP (Immunoprecipitation)
Immunoprecipitation analysis using Mouse Anti-VPS35 Monoclonal Antibody, Clone 5A9. Tissue: A549 cells. Species: Human. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody. 500 uL cell culture supernatants were incubated with 10 uL of Protein A/G resin beads for 1 hour at 4• degree C. clone 5A9 depletes VPS35 from the A549 cell extract..

ADDITIONAL INFORMATION

Related Product Information for anti-VPS35 antibody	Vacuolar Protein Sorter-35 (VPS35) is a component of the retromer complex, which is essential for endosome-to-Golgi retrieval of membrane proteins. VPS35 mutations such as D620N have been linked to Parkinson's Disease (PD) (1,2) and affect retromer function, protein homeostasis, and mitochondria (3).
Product Categories/Family for anti-VPS35 antibody	Cell Signaling; Neuroscience |Neurodegeneration; Parkinson's Disease; Membrane Trafficking Proteins; Golgi Proteins; Protein Trafficking; Alzheimer's Disease; Antibodies
References	1. Vilarino-Guell, C. et al. (2011) Am J Hum Genet 89:162-167. 2. Zimprich, A. et al. (2011) Am J Hum Genet 89:168-175. 3. Rahman, A.A., Morrison, B.E. (2019) Neurosci 401:1-10.

NCBI AND UNIPROT INFORMATION

NCBI GI #	17999541
NCBI GeneID	55737
NCBI Accession #	NP_060676.2
NCBI GenBank Nucleotide #	NP_060676.2
UniProt Accession #	Q96QK1
NCBI Official Full Name	vacuolar protein sorting-associated protein 35
NCBI Official Synonym Full Names	VPS35 retromer complex component
NCBI Official Symbol	VPS35

NCBI Official Synonym Symbols	MEM3; PARK17
NCBI Protein Information	vacuolar protein sorting-associated protein 35
UniProt Protein Name	Vacuolar protein sorting-associated protein 35
UniProt Gene Name	**VPS35**
UniProt Synonym Gene Names	MEM3; hVPS35
UniProt Entry Name	VPS35_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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