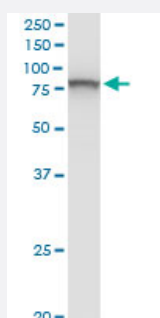


VPS35 monoclonal antibody (M02), clone 2D3

Catalog # H00055737-M02

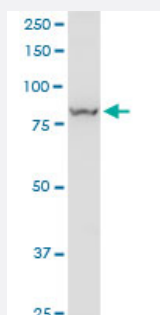
Size 100 ug

Applications



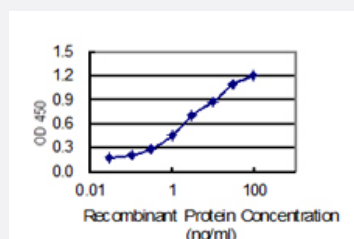
Western Blot (Tissue lysate)

VPS35 monoclonal antibody (M02), clone 2D3. Western Blot analysis of VPS35 expression in human colon.



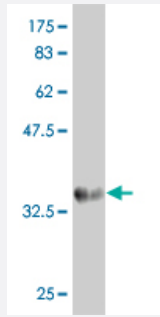
Western Blot (Cell lysate)

VPS35 monoclonal antibody (M02), clone 2D3. Western Blot analysis of VPS35 expression in HeLa.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged VPS35 is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant VPS35.
Immunogen	VPS35 (NP_060676, 697 a.a. ~ 796 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MECLKKALKIANQCMDPSLQVQLFIEILNRYIFYEKENDAVTIQVLNQLIQKIREDLPNLESSEETEQI NKHFHNTLEHLRLRRESPESEGPIYEGIL
Host	Mouse
Reactivity	Human, Rat
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

VPS35 monoclonal antibody (M02), clone 2D3. Western Blot analysis of VPS35 expression in human colon.

[Protocol Download](#)

- Western Blot (Cell lysate)

VPS35 monoclonal antibody (M02), clone 2D3. Western Blot analysis of VPS35 expression in HeLa.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged VPS35 is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — VPS35

Entrez GeneID [55737](#)

GeneBank Accession# [NM_018206](#)

Protein Accession# [NP_060676](#)

Gene Name VPS35

Gene Alias DKFZp434E1211, DKFZp434P1672, FLJ10752, FLJ13588, FLJ20388, MEM3

Gene Description vacuolar protein sorting 35 homolog (S. cerevisiae)

Omim ID [606931](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations maternal-embryonic 3|vacuolar protein sorting 35

Publication Reference

- [Endosomal traffic and glutamate synapse activity are increased in VPS35 D620N mutant knock-in mouse neurons, and resistant to LRRK2 kinase inhibition.](#)

Chelsie A Kadgien, Anusha Kamesh, Austen J Milnerwood.

Molecular Brain 2021 Sep; 14(1):143.

Application: IF, IP, WB-Tr, Mouse, Mouse brain, Mouse cortical neurons

- [A new functional role of mitochondria-anchored protein ligase in peroxisome morphology in mammalian cells.](#)

Abhishek Mohanty, Rodolfo Zunino, Vincent Soubannier, Shilpa Dilipkumar.

Journal of Cellular Biochemistry 2021 Nov; 122(11):1686.

Application: WB-Tr, Monkey, COS-7 cells

- [DNAJC13 p.Asn855Ser, implicated in familial parkinsonism, alters membrane dynamics of Sorting Nexin 1.](#)

Follett J, Fox JD, Gustavsson EK, Kadgien C, Munsie LN, Cao LP, Tatarnikov I, Milnerwood AJ, Farrer MJ.

Neuroscience Letters 2019 Jul; 706:114.

Application: IP, Mouse, Mouse cortical neurons

- [Altered dopamine release and monoamine transporters in Vps35 p.D620N knock-in mice.](#)

Cataldi S, Follett J, Fox JD, Tatarnikov I, Kadgien C, Gustavsson EK, Khinda J, Milnerwood AJ, Farrer MJ.

NPJ Parkinson's Disease 2018 Aug; 4:27.

Application: WB-Ti, Mouse, Mouse brains

- [Activity-regulated trafficking of the palmitoyl-acyl transferase DHHC5.](#)

Brigidi GS, Santyr B, Shimell J, Jovellar B, Bamji SX.

Nature Communications 2015 Sep; 6:8200.

Application: IF, Rat, Hippocampal neurons

- [Retromer-dependent neurotransmitter receptor trafficking to synapses is altered by the Parkinson's Disease VPS35 mutation p.D620N.](#)

Munsie LN, Milnerwood AJ, Seibler P, Beccano-Kelly DA, Tatarnikov I, Khinda J, Volta M, Kadgien C, Cao LP, Tapia L, Klein C, Farrer MJ.

Human Molecular Genetics 2015 Mar; 24(6):1691.

Application: IF, WB-Tr, Human, Mouse, Cortex, HEK293 cells

- [A Combined Transgenic Proteomic Analysis and Regulated Trafficking of Neuroligin-2.](#)

Kang Y, Ge Y, Cassidy RM, Lam V, Luo L, Moon KM, Lewis R, Molday RS, Wong RO, Foster LJ, Craig AM.

The Journal of Biological Chemistry 2014 Oct; 289(42):29350.

Application: ICC, Rat, Hippocampal neuron

- [A Novel, Retromer-Independent Role for Sorting Nexins 1 and 2 in RhoG-Dependent Membrane Remodeling.](#)

Prosser DC, Tran D, Schooley A, Wendland B, Ngsee JK.

Traffic (Copenhagen, Denmark) 2010 Oct; 11(10):1347.

Application: IF, WB-Tr, Human, Mouse, CHO, HeLa cells