

VPS35 Antibody
VPS35 Antibody, Clone 7E4
Catalog # ASM10691**Specification**

VPS35 Antibody - Product Information

Primary Accession	O96QK1
Other Accession	NP_060676.2
Host	Mouse
Clonality	Monoclonal
Target/Specificity	
VPS35	

Other Names

Vacuolar protein sorting-associated protein 35, MEM3, PARK17, VPS35 retromer complex component, maternal-embryonic 3, vesicle protein sortin 35, TCCCTA00141, FLJ10752

Immunogen

Full length recombinant human VSP35

Purification

Protein G Purified

Storage	-20°C
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Storage Buffer

PBS pH 7.4, 50% glycerol, 0.09% Sodium azide *Storage buffer may change when conjugated

Shipping Temperature	Blue Ice or 4°C
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Certificate of Analysis

A 1:1000 dilution of SMC-602 was sufficient for detection of VPS35 in 10 µg of SH-SY5Y by ECL immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary antibody.

Cellular Localization

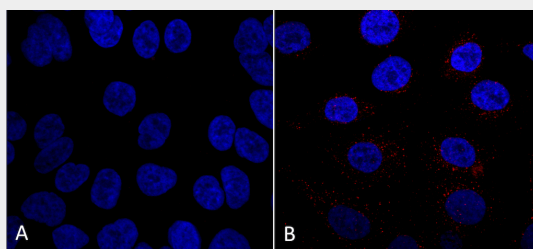
Endosome | Lysosome | Vesicles | Cytoplasm | Membrane

VPS35 Antibody - Protocols

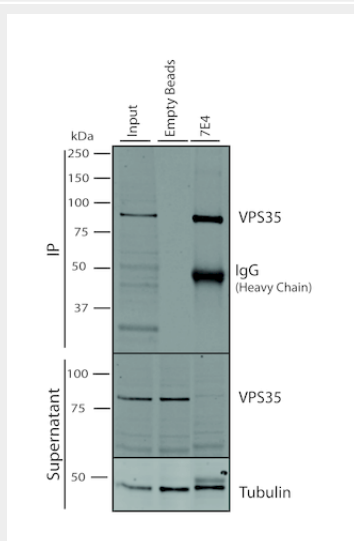
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

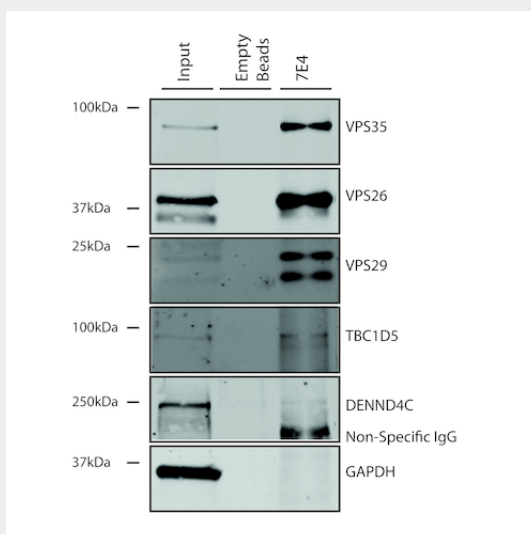
VPS35 Antibody - Images



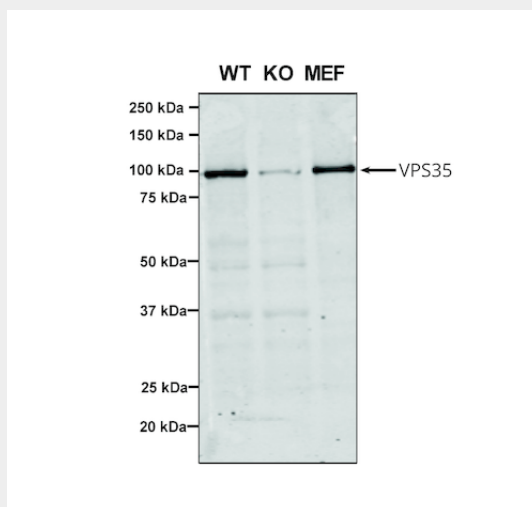
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VPS35 Monoclonal Antibody, Clone 7E4 (ASM10691). Tissue: A549 cells. Species: Human. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody (ASM10691) at 1:5 (tissue culture supernatant). Secondary Antibody: Donkey anti-mouse: Alexa Fluor 594 at 1:4000 in 0.2% BSA PBS. Counterstain: DAPI. Localization: Vesicles. A) VPS35 KO A549 cells B) WT A549 cells. Courtesy of: Dario Alessi Lab, University of Dundee.



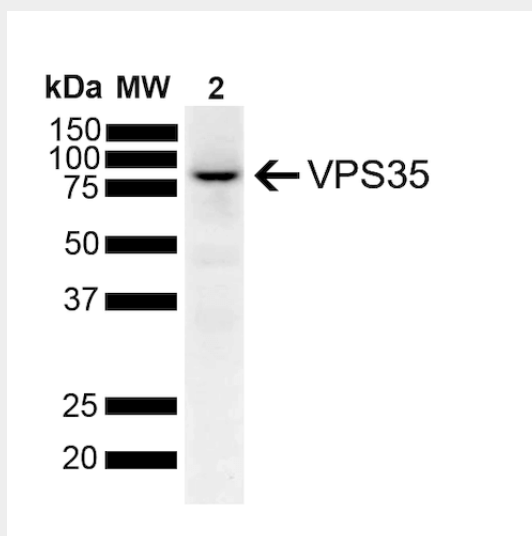
Immunoprecipitation analysis using Mouse Anti-VPS35 Monoclonal Antibody, Clone 7E4 (ASM10691). Tissue: A549 cells. Species: Human. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody (ASM10691). 500 μ L cell culture supernatants were incubated with 10 μ L of Protein A/G resin beads for 1 hour at 4°C. ASM10691 clone 7E4 depletes virtually all of the VPS35 from the A549 cell extract..



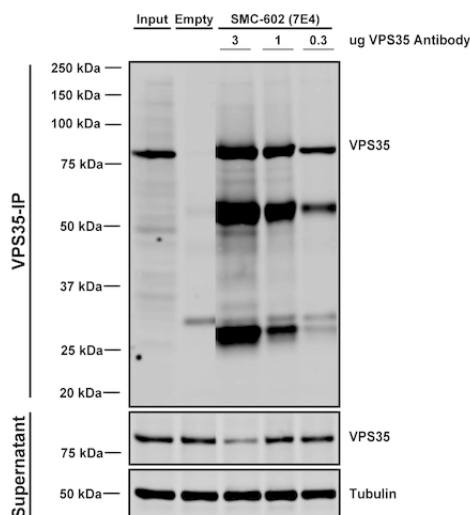
Immunoprecipitation analysis using Mouse Anti-VPS35 Monoclonal Antibody, Clone 7E4 (ASM10691). Tissue: A549 cells. Species: Human. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody (ASM10691).



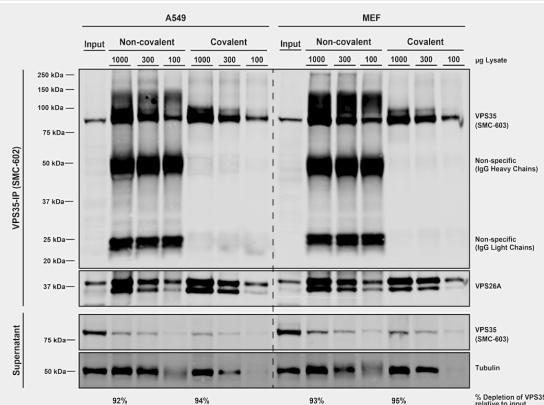
Western Blot analysis of Human, Mouse A549, MEF showing detection of VPS35 protein using Mouse Anti-VPS35 Monoclonal Antibody, Clone 7E4 (ASM10691). Lane 1: Molecular Weight Ladder. Lane 2: VPS35 KO A549 cells. Lane 3: mouse embryonic fibroblast cells.. Load: 8 µg each A549 and MEF. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody (ASM10691) at 1:5 (tissue culture supernatant). Secondary Antibody: Donkey anti-mouse IRDye 800CW at 1:25000 in TBS-T.



Western Blot analysis of Human SH-SY5Y lysates showing detection of 91.7 kDa VPS35 protein using Mouse Anti-VPS35 Monoclonal Antibody, Clone 7E4 (ASM10691). Lane 1: Molecular Weight Ladder. Lane 2: SH-SY5Y. Load: 10 µg. Block: 5% Skim Milk powder in TBST. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody (ASM10691) 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. Predicted/Observed Size: 91.7 kDa.



Immunoprecipitation analysis using Mouse Anti-VPS35 Monoclonal Antibody, Clone 7E4 (ASM10691). Tissue: embryonic fibroblast. Species: Mouse. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody (ASM10691). Three amounts of ASM10691 (3, 1 and 0.3 ug) were non-covalently coupled to 10uL of A/G sepharose beads for 1 hour at 4°C and next incubated with 250ug of MEF lysate for 2 hours at 4°C.



Immunoprecipitation analysis using Mouse Anti-VPS35 Monoclonal Antibody, Clone 7E4 (ASM10691). Tissue: MEF, A549 cells. Species: Human, Mouse. Primary Antibody: Mouse Anti-VPS35 Monoclonal Antibody (ASM10691) at 1:5 (tissue culture supernatant). 10 ug antibody were coupled to 10 uL A/G resin beads either covalently (with DMP) or non-covalently (1 hour at 4 degrees). The antibody immunoprecipitates VPS35 in mouse and human cells effectively when covalently coupled to the beads..

VPS35 Antibody - Background

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).

VPS35 Antibody - 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.