

Anti-VPS35 Antibody [JB33-82]

ET7107-01



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 92 kDa
Clone number:	JB33-82

Description: Vacuolar sorting proteins (VPSs) are required for proper trafficking of endocytic and biosynthetic proteins to the vacuole and play an important role in the budding process of cells. VPS35 (vacuolar protein sorting 35), also known as MEM3, is the 796 amino acid human homolog of the *S. cerevisiae* Vps35 protein. Localized to the cytoplasm and to the peripheral membrane, VPS35 is an essential component of the retromer complex which is involved in retrieval of lysosomal enzyme receptors from endosomes to the trans-Golgi network. VPS35 is expressed ubiquitously with highest expression in heart, placenta, brain, testis, kidney, colon, ovary and spleen. In addition to its crucial role in the retromer complex, VPS35 is part of a subcomplex that is required to regulate transcytosis of the polymeric immunoglobulin receptor from the basolateral to the apical surface of epithelial cells and hepatocytes.

Immunogen: Recombinant protein within Human VPS35 aa 80-220 / 796.

Positive control: U-937 cell lysate, A549 cell lysate, NIH/3T3 cell lysate, C2C12 cell lysate, mouse colon tissue lysate, L6 cell lysate, rat colon tissue lysate, human colon cancer tissue, human kidney tissue, human placenta tissue, mouse colon tissue.

Subcellular location: Cytoplasm. Membrane. Endosome.

Database links: SwissProt: Q96QK1 Human | Q9EQH3 Mouse
Entrez Gene: 25479 Rat

Recommended Dilutions:

WB	1:1,000
IHC-P	1:100-1:300

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

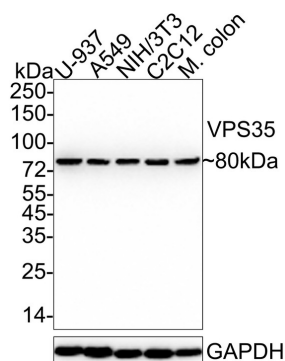
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of VPS35 on different lysates with Rabbit anti-VPS35 antibody (ET7107-01) at 1/1,000 dilution.



Lane 1: U-937 cell lysate (20 µg/Lane)

Lane 2: A549 cell lysate (20 µg/Lane)

Lane 3: NIH/3T3 cell lysate (20 µg/Lane)

Lane 4: C2C12 cell lysate (20 µg/Lane)

Lane 5: Mouse colon tissue lysate (40 µg/Lane)

Predicted band size: 92 kDa

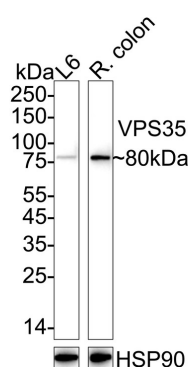
Observed band size: 80 kDa

Exposure time: 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (ET7107-01) at 1/1,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of VPS35 on different lysates with Rabbit anti-VPS35 antibody (ET7107-01) at 1/1,000 dilution.



Lane 1: L6 cell lysate (10 µg/Lane)

Lane 2: Rat colon tissue lysate (20 µg/Lane)

Predicted band size: 92 kDa

Observed band size: 80 kDa

Exposure time: 24 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (ET7107-01) at 1/1,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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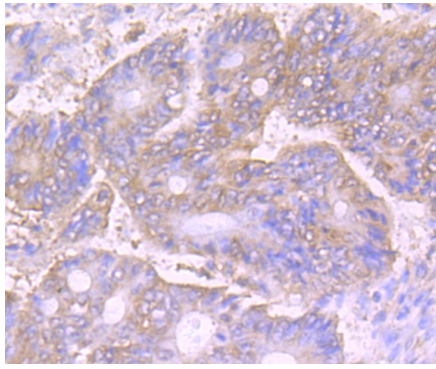


Fig3: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-VPS35 antibody. Counter stained with hematoxylin.

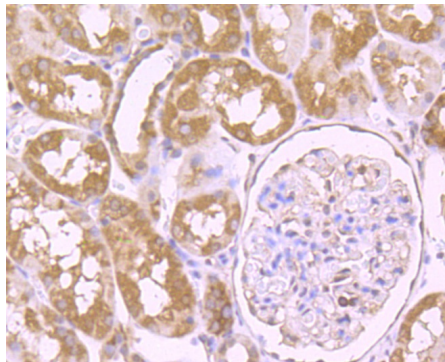


Fig4: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-VPS35 antibody. Counter stained with hematoxylin.

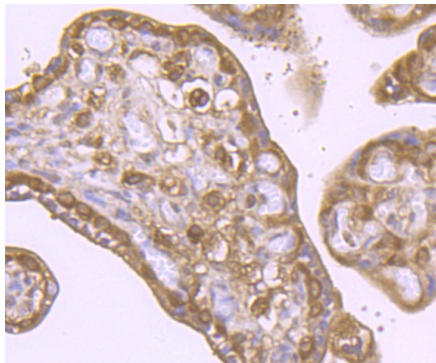


Fig5: Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-VPS35 antibody. Counter stained with hematoxylin.

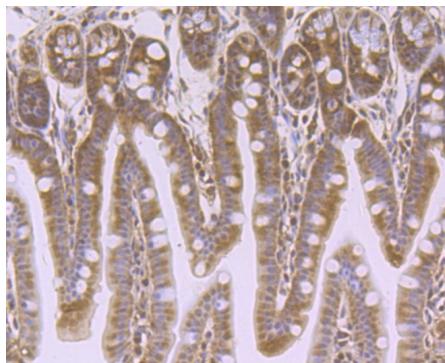


Fig6: Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-VPS35 antibody. Counter stained with hematoxylin.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Arighi C N et al. Role of the mammalian retromer in sorting of the cation-independent mannose 6-phosphate receptor. *J Cell Biol* 165:123-133 (2004) .
2. Verges M et al. The mammalian retromer regulates transcytosis of the polymeric immunoglobulin receptor. *Nat Cell Biol* 6:763-769 (2004).

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