

Product datasheet

Anti-VPS35 antibody ab10099

★★★★☆ 3 Abreviews 23 References 画像数 7

製品の概要

製品名	Anti-VPS35 antibody
製品の詳細	Goat polyclonal to VPS35
由来種	Goat
アプリケーション	適用あり: IHC-P, WB, ICC/IF
種交差性	交差種: Mouse, Rat, Human 交差が予測される動物種: Cow
免疫原	Synthetic peptide corresponding to Human VPS35 aa 783-796 (C terminal). Sequence: C-SPESEGPIYEGIL (Peptide available as ab23181) <div style="display: flex; justify-content: space-around;"> Run BLAST with Run BLAST with </div>
ポジティブ・コントロール	WB: Human cerebellum tissue lysate. IHC-P: Human testis tissue. ICC/IF: HEK293 and SHSY5Y cells.
特記事項	<p>The maintenance of organelles in eukaryotic cells depends on sorting proteins, which ensure the proper delivery of organelle-specific proteins. In <i>S. cerevisiae</i>, VPS35 has a direct role in the retrieval of vacuolar cargo proteins, suggesting that human VPS35 may have an analogous function in the maintenance of lysosomes.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
精製度	Immunogen affinity purified
特記事項 (精製)	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

一次抗体 備考

The maintenance of organelles in eukaryotic cells depends on sorting proteins, which ensure the proper delivery of organelle-specific proteins. In *S. cerevisiae*, VPS35 has a direct role in the retrieval of vacuolar cargo proteins, suggesting that human VPS35 may have an analogous function in the maintenance of lysosomes.

ポリ/モノ

ポリクローナル

アイソタイプ

IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab10099** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration.
WB	★★★★☆	Use a concentration of 0.1 - 0.3 µg/ml. Detects a band of approximately 85 kDa (predicted molecular weight: 91 kDa). Can be blocked with Human VPS35 peptide (ab23181) .
ICC/IF	★★★★★	Use at an assay dependent concentration.

ターゲット情報

機能

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).

組織特異性

Ubiquitous. Highly expressed in heart, brain, placenta, skeletal muscle, spleen, thymus, testis, ovary, small intestine, kidney and colon.

配列類似性

Belongs to the VPS35 family.

細胞内局在

Cytoplasm. Membrane.

画像



Western blot - Anti-VPS35 antibody (ab10099)

All lanes : Anti-VPS35 antibody (ab10099) at 1 $\mu\text{g/ml}$

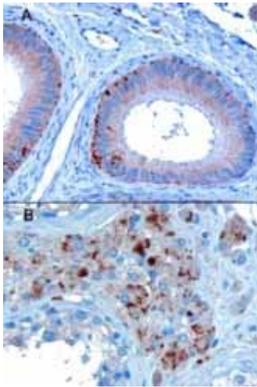
Lane 1 : Human Brain Cerebellum lysate in RIPA buffer

Lane 2 : Rat Brain lysate in RIPA buffer

Lysates/proteins at 35 μg per lane.

Predicted band size: 91 kDa

Detected by chemiluminescence.



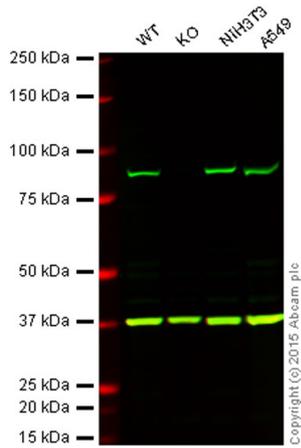
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VPS35 antibody (ab10099)

ab10099 staining Human Testis by IHC-P.

Image A) shows cytoplasmic staining of epithelial cells of the epididymis of the rete testis and image B), some Leydig cells.

Microwaved antigen retrieval with A)

Tris/EDTA buffer pH9 at 3 $\mu\text{g/ml}$ and B) Citrate buffer pH6 at 10 $\mu\text{g/ml}$, HRP-staining.



Western blot - Anti-VPS35 antibody (ab10099)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

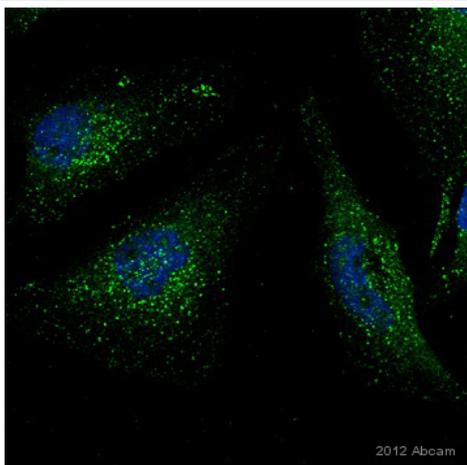
Lane 2: VPS35 knockout HAP1 cell lysate (20 µg)

Lane 3: NIH3T3 cell lysate (20 µg)

Lane 4: A549 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab10099 observed at 85 kDa. Red - loading control, ab181602, observed at 37 kDa.

ab10099 was shown to specifically react with VPS35 when VPS35 knockout samples were used. Wild-type and VPS35 knockout samples were subjected to SDS-PAGE. ab10099 and ab181602 (loading control to GAPDH) were diluted to 1 µg/ml and 1/1000 respectively and incubated overnight at 4°C. Blots were developed with IRDye® 800CW Donkey anti-Goat IgG (H + L) and Donkey Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (ab216779) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-VPS35 antibody (ab10099)

This image is courtesy of an anonymous Abreview

Immunofluorescence analysis of HeLa cells, staining VPS35 with ab10099.

Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% serum for 1 hour at 22°C. Samples were incubated with primary antibody (1/150 in 10% Serum in PBS) for 16 hours at 4°C. An AlexaFluor®488-conjugated donkey anti-goat polyclonal IgG (1/300) was used as the secondary antibody.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa

25kDa
20kDa

15kDa

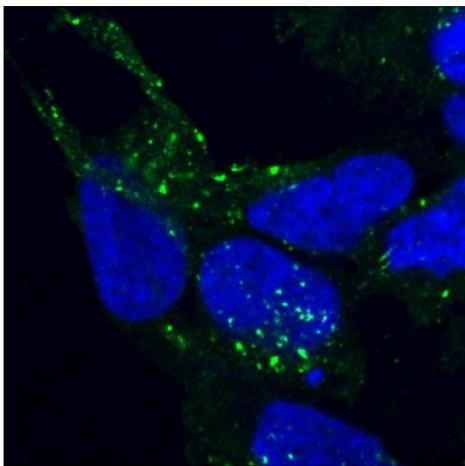
Western blot - Anti-VPS35 antibody (ab10099)

Anti-VPS35 antibody (ab10099) at 0.1 µg/ml
+ Human cerebellum tissue lysate in RIPA
buffer at 35 µg

Developed using the ECL technique.

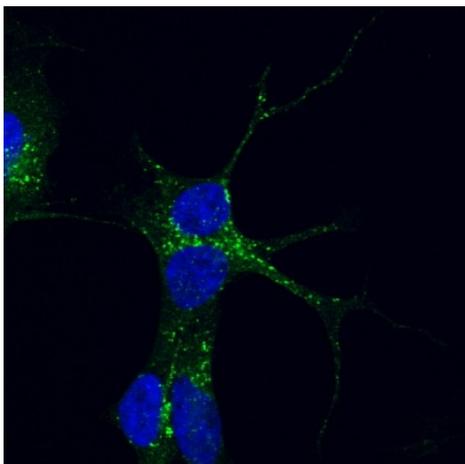
Predicted band size: 91 kDa

Incubated with the primary antibody for 1 hour.



Immunocytochemistry/ Immunofluorescence - Anti-VPS35 antibody (ab10099)

Immunocytochemistry/Immunofluorescence analysis of PFA-fixed and saponin permeabilized HEK293 cells labelling VPS35 with ab10099.



Immunocytochemistry/ Immunofluorescence - Anti-VPS35 antibody (ab10099)

Immunocytochemistry/Immunofluorescence analysis of PFA-fixed and saponin permeabilized SHSY5Y cells labelling VPS35 with ab10099.

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