

Product datasheet

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ARG41158 anti-VPS41 antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes VPS41

Tested Reactivity Hu

Predict Reactivity Ms, Rat, Cow, Dog, Gpig, Hrs, Rb

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name VPS41
Species Human

Immunogen Synthetic peptide around the middle region of Human VPS41. (within the following region:

VIVQAVRDHLKKDSQNKTLLKTLAELYTYDKNYGNALEIYLTLRHKDVFQ)

Conjugation Un-conjugated

Alternate Names HVSP41; Vacuolar protein sorting-associated protein 41 homolog; S53; HVPS41; hVps41p

Application Instructions

Predict Reactivity Note Predicted Homology Based On Immunogen Sequence: Cow: 100%; Dog: 100%; Guinea pig: 100%;

Horse: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%

Application table Application Dilution

WB 0.2 - 1 μg/ml

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Positive Control HepG2

Observed Size $\sim 100 \text{ kDa}$

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS, 0.09% (w/v) Sodium azide and 2% Sucrose.

Preservative 0.09% (w/v) Sodium azide

Stabilizer 2% Sucrose

Concentration Batch dependent: 0.5 - 1 mg/ml

Storage instruction

For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

VPS41

Gene Full Name

vacuolar protein sorting 41 homolog (S. cerevisiae)

Background

Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene encodes the human ortholog of yeast Vps41 protein which is also conserved in Drosophila, tomato, and Arabidopsis. Expression studies in yeast and human indicate that this protein may be involved in the formation and fusion of transport vesicles from the Golgi. Several transcript variants encoding different isoforms have been described for this gene, however, the full-length nature of not all is known. [provided by RefSeq, Jul 2008]

Function

Plays a role in vesicle-mediated protein trafficking to lysosomal compartments including the endocytic membrane transport and autophagic pathways. Believed to act in part as a core component of the putative HOPS endosomal tethering complexe is proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The HOPS complex is proposed to be recruited to Rab7 on the late endosomal membrane and to regulate late endocytic, phagocytic and autophagic traffic towards lysosomes. Involved in homotypic vesicle fusions between late endosomes and in heterotypic fusions between late endosomes and lysosomes implicated in degradation of endocytosed cargo. Required for fusion of autophagosomes with lysosomes. May link the HOPS complex to endosomal Rab7 via its association with RILP and to lysosomal membranes via its association with ARL8B, suggesting that these interactions may bring the compartments to close proximity for fusion. Involved in the direct trans-Golgi network to late endosomes transport of lysosomal membrane proteins independently of HOPS. Involved in sorting to the regulated secretory pathway presumably implicating the AP-3 adaptor complex (By similarity). May play a role in HOPS-independent function in the regulated secretory pathway. [UniProt]

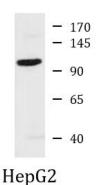
Calculated Mw

99 kDa

Cellular Localization

Endosome membrane. Late endosome. Lysosome. Golgi apparatus, trans-Golgi network. Early endosome. Cytoplasmic vesicle, clathrin-coated vesicle. [UniProt]

Images



ARG41158 anti-VPS41 antibody WB image

Western blot: HepG2 cell lysate stained with ARG41158 anti-VPS41 antibody at $0.2 - 1 \mu g/ml$ dilution.