

VPS37A (H-300): sc-98470

BACKGROUND

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. VPS37A (vacuolar protein sorting 37 homolog A), also known as HCRP1 or PQBP2, is a 397 amino acid protein that contains one VPS37 C-terminal domain and localizes to the nucleus, as well as to the peripheral membrane and the late endosome membrane. Expressed in a variety of tissues with higher levels in liver, VPS37A functions as a component of the multi-protein ESCRT-I (endosomal sorting complex required for transport I) complex and plays a role in vesicular trafficking and protein sorting, as well as cell growth and differentiation. Multiple isoforms of VPS37A exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: VPS37A (human) mapping to 8p22; Vps37a (mouse) mapping to 8 A4.

SOURCE

VPS37A (H-300) is a rabbit polyclonal antibody raised against amino acids 81-380 mapping within an internal region of VPS37A of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

VPS37A (H-300) is recommended for detection of VPS37A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

VPS37A (H-300) is also recommended for detection of VPS37A in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for VPS37 siRNA (h): sc-61796, VPS37 shRNA Plasmid (h): sc-61796-SH and VPS37 shRNA (h) Lentiviral Particles: sc-61796-V.

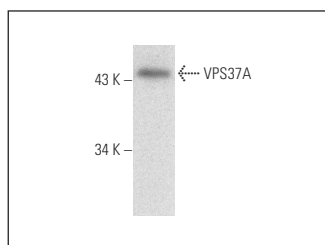
Molecular Weight of VPS37A: 44 kDa.

Positive Controls: A549 cell lysate: sc-2413.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



VPS37A (H-300): sc-98470. Western blot analysis of VPS37A expression in A549 whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

MONOS
Satisfaction
Guaranteed

Try **VPS37A (G-3): sc-376978**, our highly recommended monoclonal alternative to VPS37A (H-300).