

VPS39 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS14762**Specification**

VPS39 Antibody (C-Terminus) - Product Information

Application	IF, WB, IHC
Primary Accession	O96JC1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102kDa KDa

VPS39 Antibody (C-Terminus) - Additional Information**Gene ID** 23339**Other Names**

Vam6/Vps39-like protein, TRAP1-like protein, hVam6p, VPS39, KIAA0770, TLP, VAM6

Target/Specificity

Human VPS39. At least four isoforms of VPS39 are known to exist; this antibody will detect all four. VPS39 antibody is predicted not to cross-react with TRAP1.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

VPS39 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

VPS39 Antibody (C-Terminus) - Protein Information**Name** VPS39 ([HGNC:20593](#))**Synonyms** KIAA0770, TLP, VAM6**Function**

Regulator of TGF-beta/activin signaling, inhibiting SMAD3- and activating SMAD2-dependent transcription. Acts by interfering with SMAD3/SMAD4 complex formation, this would lead to inhibition of SMAD3-dependent transcription and relieve SMAD3 inhibition of SMAD2-dependent promoters, thus increasing SMAD2- dependent transcription. Does not affect TGF-beta-induced SMAD2 or SMAD3 phosphorylation, nor SMAD2/SMAD4 complex formation.

Cellular Location

Cytoplasm. Lysosome membrane; Peripheral membrane protein. Late endosome membrane; Peripheral membrane protein. Note=Colocalizes with TGFBR1 and TGFBR2 in cytoplasmic vesicular structures and most prominently in cortical vesicles.

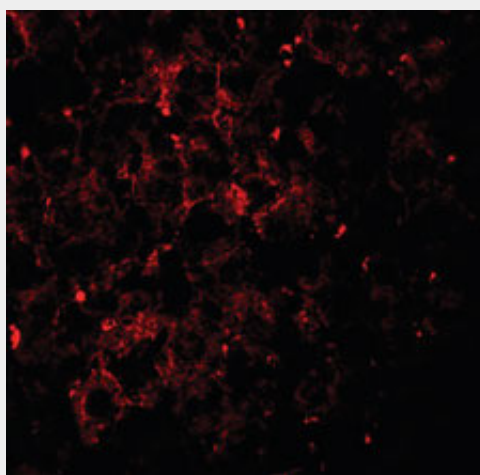
Tissue Location

Widely expressed, with highest levels in heart, skeletal muscle, kidney, pancreas, brain, placenta and spleen

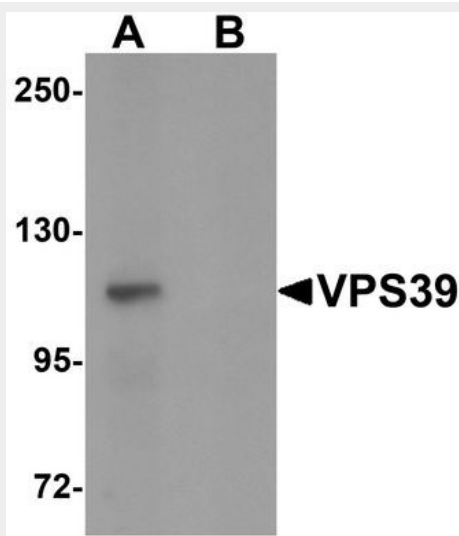
VPS39 Antibody (C-Terminus) - Protocols

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

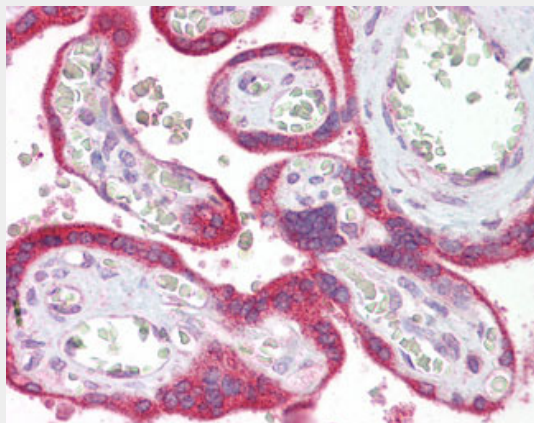
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

VPS39 Antibody (C-Terminus) - Images

Immunofluorescence of VPS39 in mouse liver tissue with VPS39 antibody at 20 ug/ml.



Western blot analysis of VPS39 in rat liver tissue lysate with VPS39 antibody at 0.5 ug/ml in...



Anti-VPS39 antibody IHC of human placenta.

VPS39 Antibody (C-Terminus) - Background

May play a role in clustering and fusion of late endosomes and lysosomes. Regulator of TGF-beta/activin signaling, inhibiting SMAD3- and activating SMAD2-dependent transcription. Acts by interfering with SMAD3/SMAD4 complex formation, this would lead to inhibition of SMAD3-dependent transcription and relieve SMAD3 inhibition of SMAD2-dependent promoters, thus increasing SMAD2-dependent transcription. Does not affect TGF-beta-induced SMAD2 or SMAD3 phosphorylation, nor SMAD2/SMAD4 complex formation.

VPS39 Antibody (C-Terminus) - References

- Caplan S.,et al.J. Cell Biol. 154:109-122(2001).
- Dell'Angelica E.C.,et al.Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.
- Nagase T.,et al.DNA Res. 5:277-286(1998).
- Nakajima D.,et al.DNA Res. 9:99-106(2002).
- Bechtel S.,et al.BMC Genomics 8:399-399(2007).