

Vasohibin 1 / VASH1 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS16593**Specification**

Vasohibin 1 / VASH1 Antibody (C-Terminus) - Product Information

Application	IHC, IF, WB
Primary Accession	Q7L8A9
Other Accession	22846
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40957

Vasohibin 1 / VASH1 Antibody (C-Terminus) - Additional Information**Gene ID** 22846**Other Names**

VASH1, KIAA1036, VASH, Vasohibin 1, Vasohibin-1

Target/Specificity

Human VASH1. VASH1 antibody is predicted to not cross-react with other vasohibin protein family members. At least two isoforms are known to exist; this antibody will recognize only the long isoform.

Reconstitution & Storage

PBS, 0.02% sodium azide. Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

Vasohibin 1 / VASH1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

Vasohibin 1 / VASH1 Antibody (C-Terminus) - Protein Information**Name** VASH1 ([HGNC:19964](#))**Function**

Tyrosine carboxypeptidase that removes the C-terminal tyrosine residue of alpha-tubulin, thereby regulating microtubule dynamics and function (PubMed:29146869, PubMed:31270470, PubMed:31235910, PubMed:31171830, PubMed:31235911). Critical for spindle function and accurate chromosome segregation during mitosis since microtubule detyrionisation regulates mitotic spindle length and postioning (PubMed:31171830). Acts as an angiogenesis inhibitor: inhibits migration, proliferation and network formation by endothelial cells as well as angiogenesis (PubMed:15467828, PubMed:16488400, PubMed:16707096, PubMed:19204325). This inhibitory effect is selective to endothelial cells as it does not affect the migration of smooth muscle cells or fibroblasts (PubMed:15467828, PubMed:16488400, PubMed:16707096).

Cellular Location

Cytoplasm. Secreted. Note=Mainly localizes in the cytoplasm (PubMed:27879017). Some fraction is secreted via a non-canonical secretion system; interaction with SVBP promotes secretion (PubMed:27879017).

Tissue Location

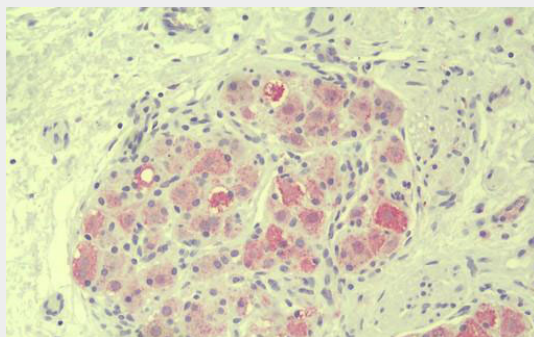
Preferentially expressed in endothelial cells (PubMed:15467828, PubMed:16707096). Highly expressed in fetal organs (PubMed:15467828). Expressed in brain and placenta, and at lower level in heart and kidney (PubMed:15467828). Highly detected in microvessels endothelial cells of atherosclerotic lesions (PubMed:16707096)

Vasohibin 1 / VASH1 Antibody (C-Terminus) - Protocols

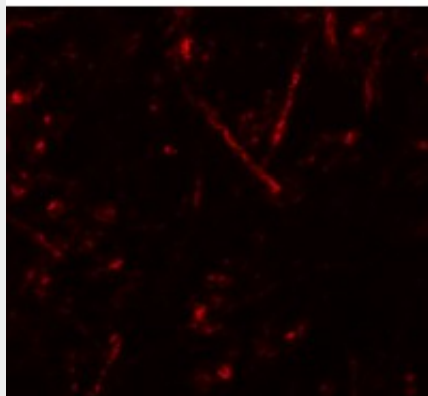
Provided below are standard protocols that you may find useful for product applications.

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

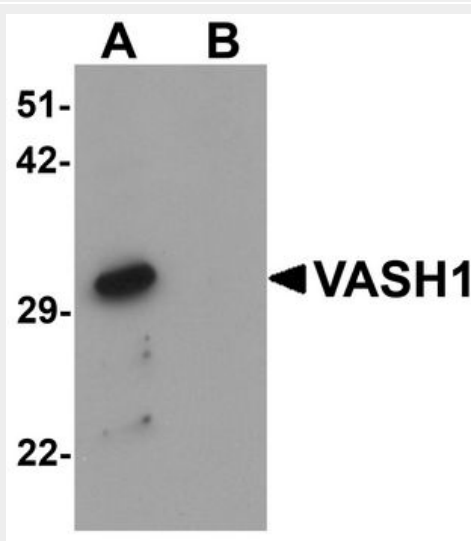
Vasohibin 1 / VASH1 Antibody (C-Terminus) - Images



Anti-Vasohibin 1 / VASH1 antibody IHC staining of human prostate, ganglion.



Immunofluorescence of VASH1 in mouse brain tissue with VASH1 antibody at 20 µg/mL.



Western blot analysis of VASH1 in human brain tissue lysate with VASH1 antibody at 1 ug/ml in...

Vasohibin 1 / VASH1 Antibody (C-Terminus) - Background

Angiogenesis inhibitor. Inhibits migration, proliferation and network formation by endothelial cells as well as angiogenesis. This inhibitory effect is selective to endothelial cells as it does not affect the migration of smooth muscle cells or fibroblasts. Does not affect the proliferation of cancer cells in vitro, but inhibits tumor growth and tumor angiogenesis. Acts in an autocrine manner. Inhibits artery neointimal formation and macrophage infiltration. Exhibits heparin-binding activity.

Vasohibin 1 / VASH1 Antibody (C-Terminus) - References

- Kikuno R.,et al.DNA Res. 6:197-205(1999).
- Bechtel S.,et al.BMC Genomics 8:399-399(2007).
- Heilig R.,et al.Nature 421:601-607(2003).
- Watanabe K.,et al.J. Clin. Invest. 114:898-907(2004).
- Shimizu K.,et al.Biochem. Biophys. Res. Commun. 327:700-706(2005).