

VASH1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50792**Specification**

VASH1 Antibody - Product Information

Application	WB
Primary Accession	Q7L8A9
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41,22 KDa
Antigen Region	281-310

VASH1 Antibody - Additional Information**Gene ID** 22846**Other Names**

Vasohibin-1, VASH1, KIAA1036, VASH

Dilution

WB~~ 1:1000

FormatRabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

VASH1 Antibody - 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 detyronisation regulates mitotic spindle length and positioning (PubMed:31171830). Acts as an angiogenesis inhibitor: inhibits migration, proliferation and network formation by endothelial cells as well as angiogenesis (PubMed:15467828).

target="_blank">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

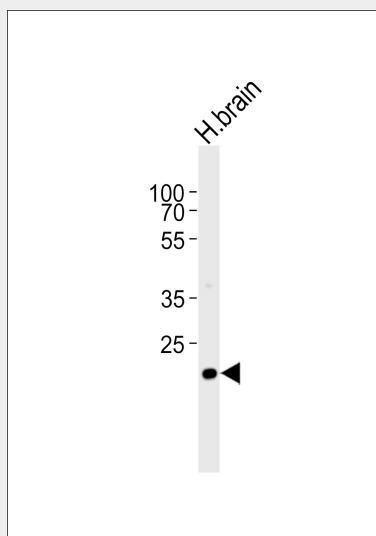
Preferentially expressed in endothelial cells (PubMed:15467828, PubMed:16707096). Highly expressed in fetal organs (PubMed:15467828). Expressed in brain and placenta, and at lower level in heart and kidney (PubMed:15467828). Highly detected in microvessels endothelial cells of atherosclerotic lesions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

VASH1 Antibody - 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](#)

VASH1 Antibody - Images



Western blot analysis of lysate from human brain tissue lysate, using VASH1 Antibody (AP50792). AP50792 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as

the secondary antibody. Lysate at 35ug.

VASH1 Antibody - 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.

VASH1 Antibody - 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).