SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Vasohibin 1 antibody

Catalog Number: SL1505R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Vasohibin 1
Immunogen:	KLH conjugated synthetic peptide derived from human VASH1: 281-365/365
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Rat, (predicted: Mouse, Dog, Pig, Cow, Horse, Rabbit)
Predicted MW.:	41kDa
Subcellular Location:	Secretory protein
Background:	VASH1 is a angiogenesis inhibitor. It 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. It does not affect the proliferation of cancer cells in vitro, but inhibits tumor growth and tumor angiogenesis and acts in an autocrine manner. VASH1 also inhibits artery neointimal formation and macrophage infiltration and exhibits heparin-binding activity. There are two named isoforms. **Function:** Angiogenesis inhibitor. Inhibits migration,proliferation and network formation by endothelial cells as well asangiogenesis. This inhibitory effect is selective to endothelialcells as it does not affect the migration of smooth muscle cells orfibroblasts. Does not affect the proliferation of cancer cells invitro, but inhibits tumor growth and tumor angiogenesis. Acts in anautocrine manner. Inhibits artery neointimal formation andmacrophage infiltration. Exhibits heparin-binding activity.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subcellular Location: Secreted. **Tissue Specificity:** Preferentially expressed in endothelial cells. Highly expressed in fetal organs. Expressed in brain and placenta, and at lower level in heart and kidney. Highly detected in microvessels endothelial cells of atherosclerotic lesions. **Post-translational modifications:** 2 major forms (42 and 36 kDa) and 2 minors (32 and 27 kDa)may be processed by proteolytic cleavage. The largest form (42 kDa)seems to be secreted and the other major form (63 kDa) seems toaccumulate within the cells or pericellular milieu. Polypeptideconsisting of Met-77 to Arg-318 may correspond to the 27 kDa formand that consisting of Met-77 to Val-365 may correspond to the 36kDa form. **Similarity:** Belongs to the vasohibin family. **Database links:** **Entrez Gene:** 22846 Human **Entrez Gene:** 238328 Mouse **Entrez Gene:** 503052 Rat Omim: 609011 Human **SwissProt:** Q7L8A9 Human **SwissProt:** Q8C1W1 Mouse **Unigene:** 525479 Human **Unigene:** 216101 Mouse VASH1It is a secreted protein derived from endothelial tissue that can be induced by vascular endothelial growth factor; it is the only factor discovered to date that regulates angiogenesis through a negative feedback mechanism。Its discovery confirmed that a classic autoregulatory control mechanism—negative feedback regulation—also exists in the process of angiogenesis。

[VALIDATION IMAGES]

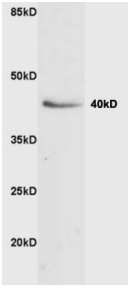


Figure 1. Sample: Liver（Rat） lysate at 30ug; Primary: Anti-alpha-Actinin-4 (SL1505R) at 1:200 dilution; Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL0295G-HRP) at 1:3000 dilution; Predicted band size: 41kD Observed band size: 41kD

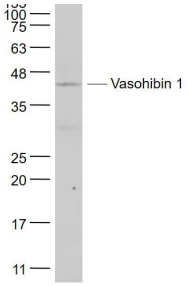


Figure 2. Sample: A431(Human) Cell Lysate at 30 ug Primary: Anti- Vasohibin 1 (SL1505R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 41 kD Observed band size: 41 kD

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