SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HEG1 antibody

Catalog Number: SL15449R

FOR RESEARCH USE ONLY

[DATASHEET]

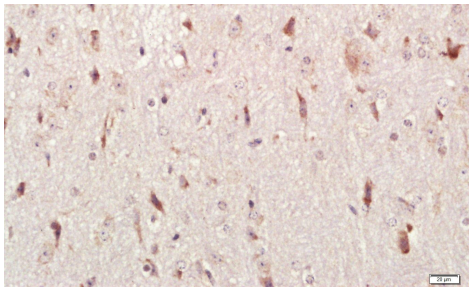
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HEG1
Immunogen:	KLH conjugated synthetic peptide derived from human HEG1: 1151-1381/1381 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Dog,Cow,Horse,Rabbit,Sheep)
Predicted MW.:	144kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	HEG1 (HEG homolog 1) is also known as HEG and is a 1,381 amino acid protein that exists as two alternatively spliced isoforms, one of which is a single-pass membrane protein and the other of which is secreted. HEG1, which is expressed in endothelial cells and smooth muscle cells of heart tissue, contains two EGF-like domains that play a role in calcium-binding events which may regulate concentric heart growth. The gene encoding HEG1 maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-

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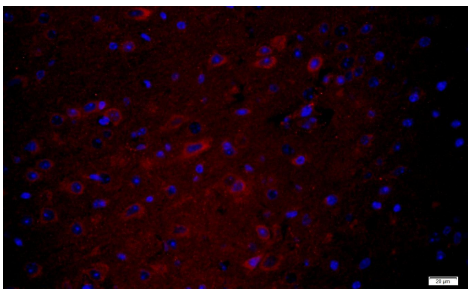
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	Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3. **Function:** Receptor component of the CCM signaling pathway which is a crucial regulator of heart and vessel formation and integrity May act through the stabilization of endothelial cell junctions. **Subunit:** Interacts with CCM2 and KRIT1; KRIT1 markedly facilitates interaction with CCM2. **Subcellular Location:** Isoform 1: Cell membrane; Single-pass type I membrane protein (Potential). Cell junction. Isoform 2: Secreted (Potential). **Similarity:** Contains 2 EGF-like domains. **Database links:** **Entrez Gene:** 57493 Human Omim: 614182 Human **SwissProt:** Q9ULI3 Human **Unigene:** 477420 Human

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HEG homolog 1) Polyclonal Antibody, Unconjugated (SL15449R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HEG homolog 1) Polyclonal Antibody, Unconjugated (SL15449R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (SL0295G-cy3) for 90 minutes, and DAPI for nuclei staining.

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