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Rabbit Anti-ACVRL1/Biotin Conjugated antibody

SL6020R-Bio

Product Name	Anti-ACVRL1/Biotin
Chinese Name	生物素标记的激活素受体样激酶 1 抗体
Alias	Activin A receptor; Activin A receptor type II like 1; Activin receptor like kinase 1; Activin receptor-like kinase 1; ACVL1_HUMAN; ACVRL1; ACVRLK1; ALK-1; ALK1; HHT; HHT2; ORW2; Osler Rendu Weber syndrome 2; Serine/threonine protein kinase receptor R3; Serine/threonine-protein kinase receptor R3; SKR3; TGF B superfamily receptor type I; TGF-B superfamily receptor type I; TSR-I; TSR1.
Research Area	Cardiovascular Cell biology immunology Signal transduction transcriptional regulatory factor Kinases and Phosphatases Cell Surface Molecule
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Dog,Pig,Horse)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	53kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ACVRL1/ALK1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:**

On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for TGF-beta. May bind activin as well.

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Subcellular Location:
Membrane.

DISEASE:
Defects in ACVRL1 are the cause of hereditary hemorrhagic telangiectasia type 2 (HHT2) [MIM:600376]; also known as Osler-Rendu-Weber syndrome 2 (ORW2). HHT2 is an autosomal dominant multisystemic vascular dysplasia, characterized by recurrent epistaxis, muco-cutaneous telangiectases, gastro-intestinal hemorrhage, and pulmonary, cerebral and hepatic arteriovenous malformations; all secondary manifestations of the underlying vascular dysplasia.

Similarity:
Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.
Contains 1 GS domain.
Contains 1 protein kinase domain.

Database links:

Entrez Gene: 94 Human

Omim: 601284 Human

SwissProt: P37023 Human

Unigene: 591026 Human

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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