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ACVRL1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7807b

Specification

ACVRL1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P37023

ACVRL1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 94

Other Names
Serine/threonine-protein kinase receptor R3, SKR3, Activin receptor-like kinase 1, ALK-1, TGF-B superfamily receptor type I, TSR-I, ACVRL1, ACVRLK1, ALK1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7807b was selected from the C-term region of human ACVRL1 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ACVRL1 Antibody (C-term) Blocking Peptide - Protein Information

Name ACVRL1

ACVRL1 Antibody (C-term) Blocking Peptide - Background

This gene encodes a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine- and serine-rich region (called the GS domain) preceding the kinase domain, and a short C-terminal tail. The encoded protein, sometimes termed ALK1, shares similar domain structures with other closely related ALK or activin receptor-like kinase proteins that form a subfamily of receptor serine/threonine kinases. Mutations in this gene are associated with hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2.

ACVRL1 Antibody (C-term) Blocking Peptide - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).Berg, J.N., et al., Am. J. Hum. Genet. 61(1):60-67 (1997).Johnson, D.W., et al., Nat. Genet. 13(2):189-195 (1996).ten Dijke, P., et al., Oncogene 8(10):2879-2887 (1993).Attisano, L., et al., Cell 75(4):671-680 (1993).

Synonyms ACVRLK1, ALK1

Function
Type I receptor for TGF-beta family ligands BMP9/GDF2 and BMP10 and important regulator of normal blood vessel development. 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. May bind activin as well.

Cellular Location
Cell membrane; Single-pass type I membrane protein

ACVRL1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides