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Datasheet for ABIN5510686 ACVRL1 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	ACVRL1
Binding Specificity:	AA 23-119
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse ALK-1/ACVRL1
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: D23-P119
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Target Details

Target:	ACVRL1
Alternative Name:	Acvrl1 (ACVRL1 Products)
Background:	Protein Function: Type I receptor for TGF-beta family ligands BMP9/GDF2 and BMP10 and

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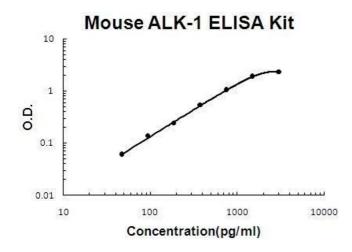
important regulator of normal blood vessel development. On ligand binding, forms a receptor
complex consisting of two type II and two type I transmembrane serine/threonine kinases.
Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then
bind and activate SMAD transcriptional regulators. May bind activin as well
Background: Serine/threonine-protein kinase receptor R3 is an enzyme that in humans is
encoded by the ACVRL1 gene. It is also known as activin receptor-like kinase 1, or ALK1. 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 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.
Synonyms: Serine/threonine-protein kinase receptor R3,SKR3,2.7.11.30,Activin receptor-like
kinase 1,ALK-1,TGF-B superfamily receptor type I,TSR-I,Acvrl1,Acvrlk1, Alk-1,
Full Gene Name: Serine/threonine-protein kinase receptor R3
Cellular Localisation: Cell membrane, Single-pass type I membrane protein.

UniProt:

Q61288

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only
Handling	
Storage:	4 °C,-20 °C
Storage: Storage Comment:	4 °C,-20 °C Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)



ELISA

Image 1. Mouse ALK-1/ACVRL1 PicoKine ELISA Kit standard curve

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