Human ALK-1,ACVRL1 ELISA Kit

Catalog No: #EK5715

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Description

Product Name	Human ALK-1,ACVRL1 ELISA Kit
Specificity	Human
Crossing Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen Type	NSO,D22-Q118
Other Names	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, ALK1;
Accession No.	P37023
Uniprot	P37023
GeneID	94;
Cell Localization	Cell membrane; Single-pass type I membrane protein.

Application Details

sensitivity:15pg mlDetect Range:46.9pg ml-3000pg mlsample_type:cell culture supernates cell lysates tissue homogenates serum and plasma (heparin EDTA).capture_antibody:detection_antibody:gene_name:ACVRL1protein_name:Serine threonine-protein kinase receptor R3gene_full_name:Serine threonine-protein kinase receptor R3tissue_specificity:sequence_similarities:tmb_incubation:25-30minresearch_category:cardiovascular|angiogenesis|growth factors|tgf|signal transduction|metabolism|amino acids|protein phosphorylation|ser / thr kinases kinases|growth factors/hormones|vasculature|endothelium|pathways and processes|metabolic signaling pathways|amino acid metabolism|types of disease|cancer

Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ALK-1,ACVRL1

Background

protein_function: Type I receptor for TGF-beta family ligands BMP9,GDF2and BMP10 and important regulator of normal blood vesseldevelopment. On ligand binding, forms a receptor complexconsisting of two type II and two type I transmembraneserine,threonine kinases. Type II receptors phosphorylate andactivate type I receptors which autophosphorylate, then bind andactivate SMAD transcriptional regulators. May bind activin aswell..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.

Note: This product is for in vitro research use only