Human Activin receptor type-1 (ACVR1) ELISA Kit

Catalog No: #EK7691

Package Size: #EK7691-1 48T #EK7691-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Activin receptor type-1 (ACVR1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ACTRI; ACVR1A; ACVRLK2; ALK2; FOP; SKR1; TSRI; OTTHUMP00000204604|OTTHUMP00000204626|TGF-B superfamily receptor type I|activin A receptor; type II-like kinase 2|hydroxyalkyl-protein kinase|serine/th
Accession No.	Q04771
Uniprot	Q04771
GeneID	90;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.063 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate ACVR1 in samples. An antibody specific for ACVR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyACVR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACVR1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ACVR1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors.

Note: This product is for in vitro research use only