

Human Activin Receptor Type-1 (ACVR1) ELISA Kit | ACVR1 elisa kit

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CATALOG #
AAA331093

REACTIVITY
Human

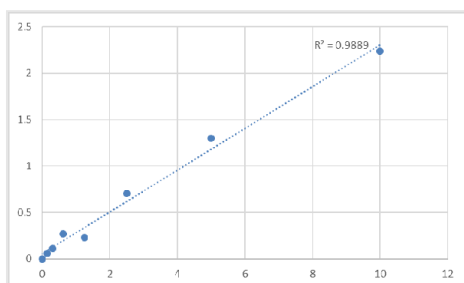
PRODUCT SYNONYMS

Activin Receptor Type-1 (ACVR1); Human Activin Receptor Type-1 (ACVR1) ELISA Kit; ACVR1; ACTRI; ACVR1A; ACVRLK2; ALK2; FOP; SKR1; TSRI; OTTHUMP00000204604; OTTHUMP00000204626; TGF-B superfamily receptor type I; activin A receptor; type-like kinase 2; hydroxyalkyl-protein kinase; serine/th; ACVR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Activin receptor type-1 (ACVR1) ELISA Kit has high sensitivity and excellent specificity for detection of Human ACVR1. No significant cross-reactivity or interference between Human ACVR1 and analogues was observed.
Sequence Length	509
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Activin receptor type-1 (ACVR1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACVR1 elisa kit	Description: This Human Activin receptor type-1 (ACVR1) ELISA Kit 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 any ACVR1 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. Background: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4501895
NCBI GeneID	90
NCBI Accession #	NP_001096
NCBI GenBank Nucleotide #	NP_001096.1
UniProt Accession #	Q04771
NCBI Official Full Name	activin receptor type-1
NCBI Official Synonym Full Names	activin A receptor type 1
NCBI Official Symbol	ACVR1
NCBI Official Synonym Symbols	FOP; ALK2; SKR1; TSRI; ACTRI; ACVR1A; ACVRLK2
NCBI Protein Information	activin receptor type-1
UniProt Protein Name	Activin receptor type-1
UniProt Gene Name	ACVR1
UniProt Synonym Gene Names	ACVRLK2; ACTR-I; ALK-2; SKR1; TSR-I
UniProt Entry Name	ACVR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.