

Rat Activin receptor type-1 (ACVR1) ELISA Kit | ACVR1 elisa kit

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CATALOG #
AAA246074

REACTIVITY
Rat

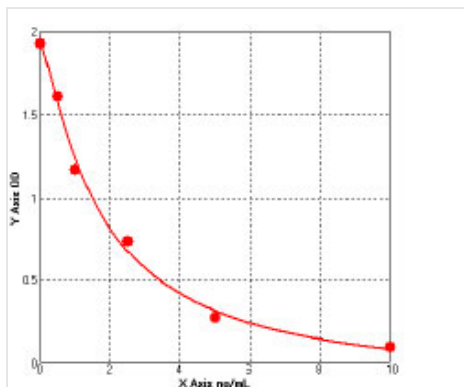
PRODUCT SYNONYMS

Activin receptor type-1 (ACVR1); Rat Activin receptor type-1 (ACVR1) ELISA Kit; ACVR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ACVR1. No significant cross-reactivity or interference between ACVR1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ACVR1 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ACVR1 elisa kit	Intended Uses: This ACVR1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat ACVR1. This ELISA kit for research use only! Principle of the Assay: ACVR1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-ACVR1 antibody and an ACVR1-HRP conjugate. The assay sample and buffer are incubated together with ACVR1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ACVR1 concentration since ACVR1 from samples and ACVR1-HRP conjugate compete for the anti-ACVR1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ACVR1 from the sample, fewer sites are left to bind ACVR1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ACVR1 concentration in each sample is interpolated from this standard curve.
Product Categories/Family for ACVR1 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	166235898
NCBI GeneID	90
NCBI Accession #	NP_001104537.1
NCBI GenBank Nucleotide #	NM_001111067.2
Molecular Weight	57,153 Da
NCBI Official Full Name	activin receptor type-1
NCBI Official Synonym Full Names	activin A receptor, type I
NCBI Official Symbol	ACVR1
NCBI Official Synonym Symbols	FOP; ALK2; SKR1; TSRI; ACTRI; ACVR1A; ACVRLK2
NCBI Protein Information	activin receptor type-1; activin receptor type I; hydroxyalkyl-protein kinase; activin receptor-like kinase 2; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 2; serine/threonine-protein kinase receptor R1
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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/activin-receptor-type-1-acvr1/246074>