

Product datasheet

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ARG81943 Mouse ACVRL1 ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81943-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81943-002	Standard	2 X 10 ng/vial	4°C
ARG81943-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81943-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG81943-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81943-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG81943-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81943-008	25X Wash buffer	20 ml	4°C
ARG81943-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81943-010	STOP solution	10 ml (Ready to use)	4°C
ARG81943-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81943 Mouse ACVRL1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse

ACVRL1 in serum, plasma (heparin, EDTA) and cell culture supernatants.

Tested Reactivity Ms
Tested Application ELISA

Specificity There is no detectable cross-reactivity with other relevant proteins.

Target Name ACVRL1
Conjugation HRP

Conjugation Note Substrate: TMB and read at 450 nm.

Sensitivity 23.45 pg/ml

Sample Type Serum, plasma (heparin, EDTA) and cell culture supernatants.

Standard Range 46.9 - 3000 pg/ml

Sample Volume $100 \ \mu l$

Precision Intra-Assay CV: 7.4%; Inter-Assay CV: 8.2%

Alternate Names ACVRLK1; ALK1; ORW2; ALK-1; HHT; EC 2.7.11.30; Serine/threonine-protein kinase receptor R3; TGF-B

superfamily receptor type I; HHT2; SKR3; TSR-I; Activin receptor-like kinase 1

Application Instructions

Assay Time ~ 5 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol ACVRL1

Gene Full Name activin A receptor type II-like 1

Background 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, sometimes termed ALK1, 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. [provided by RefSeq, Jul 2008]

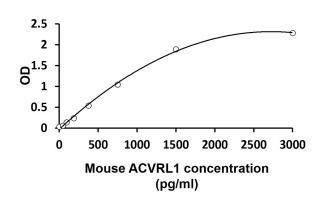
Function Type I receptor for TGF-beta family ligands BMP9/GDF2 and BMP10 and important regulator of normal

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. [UniProt]

Highlight Related products:

ACVRL1 antibodies; ACVRL1 ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81943 Mouse ACVRL1 ELISA Kit standard curve image

ARG81943 Mouse ACVRL1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.