

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 µl

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

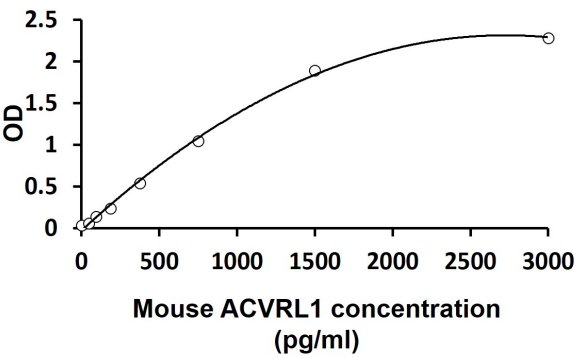
Assay Time	~ 5 hours
------------	-----------

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.