

## Human ACVRL1 ELISA Kit | ACVRL1 elisa kit

Human ALK-1/ACVRL1 PicoKine ELISA Kit

CATALOG #  
**AAA46689**

REACTIVITY  
**Human**

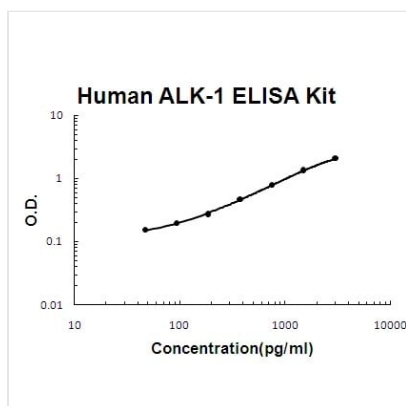
### PRODUCT SYNONYMS

ACVRL1; Human ALK-1/ACVRL1 PicoKine ELISA Kit; Activin A receptor; ACVRLK1; ALK-1; ALK1; ALK 1; HHT; HHT2; ORW2; SKR3; TSR-I; TSRI; P37023; Serine/threonine-protein kinase receptor R3; activin A receptor like type 1; ACVRL1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                 |
| Specificity             | Natural and recombinant Human ALK-1/ACVRL1                                                                                                            |
| Sequence Length         | 503                                                                                                                                                   |
| Samples                 | Cell culture supernates, serum and plasma(heparin, EDTA).                                                                                             |
| Assay Type              | Sandwich                                                                                                                                              |
| Detection Range         | 46.9pg/ml-3000pg/ml                                                                                                                                   |
| Sensitivity             | <15pg/ml                                                                                                                                              |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.      |
| Inter-assay Precision   | Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice).                            |

### IMAGES



Standard Curve (Sample)

Human ALK-1/ACVRL1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

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| Related Product Information for ACVRL1 elisa kit | <p>Principle of the Assay: Human ALK-1/ACVRL1 ELISA Kit was based on standard sandwich enzyme-linked immunosorbent assay technology. A monoclonal antibody from mouse specific for ALK-1/ACVRL1 has been precoated onto 96-well plates. Standards(Expression system for standard: NSO; Immunogen sequence: D22-Q118) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ALK-1/ACVRL1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human ALK-1/ACVRL1 amount of sample captured in plate.</p> <p>Background/Introduction: Serine/threonine-protein kinase receptor R3 is an enzyme that in humans is encoded by the ACVRL1 gene. It is also known as activin receptor-like kinase 1, or ALK1. 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 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.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| NCBI GI #                        | 116734712                                          |
| NCBI GeneID                      | 94                                                 |
| NCBI Accession #                 | NP_000011.2                                        |
| NCBI GenBank Nucleotide #        | NM_000020.2                                        |
| UniProt Accession #              | P37023; A6NGA8                                     |
| Molecular Weight                 | 56,124 Da                                          |
| NCBI Official Full Name          | serine/threonine-protein kinase receptor R3        |
| NCBI Official Synonym Full Names | activin A receptor like type 1                     |
| NCBI Official Symbol             | ACVRL1                                             |
| NCBI Official Synonym Symbols    | HHT; ALK1; HHT2; ORW2; SKR3; ALK-1; TSR-I; ACVRLK1 |
| NCBI Protein Information         | serine/threonine-protein kinase receptor R3        |
| UniProt Protein Name             | Serine/threonine-protein kinase receptor R3        |
| UniProt Gene Name                | ACVRL1                                             |
| UniProt Synonym Gene Names       | ACVRLK1; ALK1; SKR3; ALK-1; TSR-I                  |
| UniProt Entry Name               | ACVL1_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/human-elisa-kits/acvrl1/46689>