

Product Name: ACTR-IB Rabbit Polyclonal Antibody

Catalog #: APRab06562

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application WB,IHC,ICC/IF,ELISA
Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000

Molecular Weight 56kDa

Antigen Information

Alternative Names

Gene Name ACVR1B

ACVR1B; ACVRLK4; ALK4; Activin receptor type-1B; Activin receptor type IB; ACTR-IB; Activin

receptor-like kinase 4; ALK-4; Serine/threonine-protein kinase receptor R2; SKR2

Gene ID 91.0

SwissProt ID P36896

The antiserum was produced against synthesized peptide derived from human ACV1B. AA Immunogen

range:73-122

Background

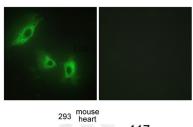


This gene encodes an activin A type IB receptor. Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I and two type II receptors. This protein is a type I receptor which is essential for signaling. Mutations in this gene are associated with pituitary tumors. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Jun 2010],catalytic activity:ATP + [receptor-protein] = ADP + [receptor-protein] phosphate.,cofactor:Magnesium or manganese.,function: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. Phosphorylates TTRAP.,PTM:Autophosphorylated.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.,similarity:Contains 1 GS domain.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with AIP1. Part of a complex consisting of AIP1, ACVR2A, ACVR1B and SMAD3. Interacts with TTRAP.,tissue specificity:Expressed in many tissues, most strongly in kidney, pancreas, brain, lung, and liver.,

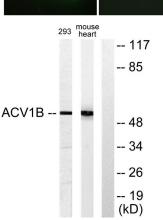
Research Area

MAPK_ERK_Growth;MAPK_G_Protein;Cytokine-cytokine receptor interaction;Endocytosis;TGF-beta;Adherens Junction;Pathways in cancer;Colorectal cancer;Pancreatic cancer;Chronic myeloid leukemia;

Image Data



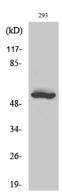
Immunofluorescence analysis of HeLa cells, using ACV1B Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 and mouse liver cells, using ACV1B Antibody. The lane on the right is blocked with the synthesized peptide.

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Western Blot analysis of various cells using ACTR-IB Polyclonal Antibody diluted at 1 : 1000

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