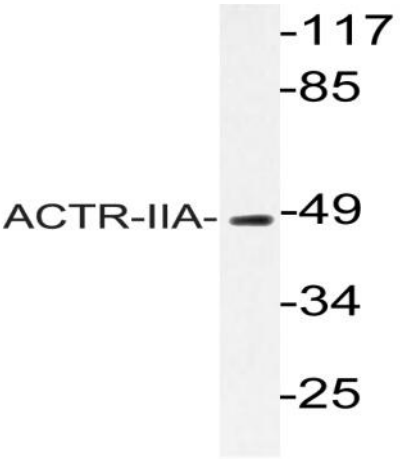
Best Tools for immunology Research

ACTR-IIA Polyclonal Antibody

Catalog No :	YT0108
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	ACTR-IIA
Fields :	>>Cytokine-cytokine receptor interaction;>>TGF-beta signaling pathway;>>Signaling pathways regulating pluripotency of stem cells;>>Fluid shear stress and atherosclerosis
Gene Name :	ACVR2A
Protein Name :	Activin receptor type-2A
Human Gene Id :	92
Human Swiss Prot No :	P27037
Mouse Gene Id :	11480
Mouse Swiss Prot No :	P27038
Rat Gene Id :	29263
Rat Swiss Prot No :	P38444
Immunogen :	The antiserum was produced against synthesized peptide derived from human ACTR-IIA. AA range:10-59
Specificity :	ACTR-IIA Polyclonal Antibody detects endogenous levels of ACTR-IIA protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	48kD
Cell Pathway :	Cytokine-cytokine receptor interaction;TGF-beta;
Background :	This gene encodes a receptor that mediates the functions of activins, which are members of the transforming growth factor-beta (TGF-beta) superfamily involved in diverse biological processes. The encoded protein is a transmembrane serine-threonine kinase receptor which mediates signaling by forming heterodimeric complexes with various combinations of type I and type II receptors and ligands in a cell-specific manner. The encoded type II receptor is primarily involved in ligand-binding and includes an extracellular ligand-binding domain, a transmembrane domain and a cytoplasmic serine-threonine kinase domain. This gene may be associated with susceptibility to preeclampsia, a pregnancy-related disease which can result in maternal and fetal morbidity and mortality. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jun 2013],
Function :	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. Receptor for activin A, activin B and inhibin A.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with AIP1. Part of a complex consisting of AIP1, ACVR2A, ACVR1B and SMAD3.,
Subcellular Location :	Membrane; Single-pass type I membrane protein.
Expression :	Mammary gland,Testis,
Sort :	1721
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



Western blot analysis of lysates from rat kidney, using ACTR-IIA antibody.