

# ACVR1 Polyclonal antibody

Catalog Number: **11108-1-AP**

## Basic Information

<b>Catalog Number:</b> 11108-1-AP	<b>GenBank Accession Number:</b> BC033867	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 600 µg/ml	<b>GeneID (NCBI):</b> 90	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q04771	
<b>Isotype:</b> IgG	<b>Full Name:</b> activin A receptor, type I	
<b>Immunogen Catalog Number:</b> AG1556	<b>Calculated MW:</b> 509 aa, 57 kDa	
	<b>Observed MW:</b> 57 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse kidney tissue,
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

ACVR1 (activin receptor type I), also known as ALK2 or ACTRI1, is a receptor for activin. It forms a stable complex with type II receptor after ligand binding. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling, and type II receptors are required for binding ligands and for expression of type I receptors. ACVR1 is expressed in many tissues including skeletal muscle and chondrocytes. It functions as a receptor for bone morphogenetic protein (BMP) and induces Indian hedgehog in chondrocytes during skeletal development. Mutations in ACVR1 gene are associated with fibrodysplasia ossificans progressive (PMID: 16642017).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

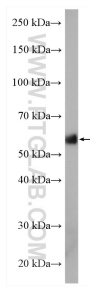
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## Selected Validation Data



mouse kidney tissue were subjected to SDS PAGE followed by western blot with 11108-1-AP (ACVR1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.