

For Research Use Only

ACVR1 Polyclonal antibody

Catalog Number: 11108-1-AP



Basic Information

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| Catalog Number: 11108-1-AP | GenBank Accession Number: BC033867 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 600 ug/ml by Nanodrop; | GeneID (NCBI): 90 | Recommended Dilutions: WB 1:500-1:1000 |
| Source: Rabbit | UNIPROT ID: Q04771 | |
| Isotype: IgG | Full Name: activin A receptor, type I | |
| Immunogen Catalog Number: AG1556 | Calculated MW: 509 aa, 57 kDa | |
| | Observed MW: 57 kDa | |

Applications

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| Tested Applications: WB, ELISA | Positive Controls: WB : mouse kidney tissue, |
| Species Specificity: 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

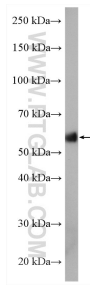
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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.