

For Research Use Only

ACVR1 Monoclonal antibody

Catalog Number: 60014-1-Ig



Basic Information

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|--|---|---|
| Catalog Number: 60014-1-Ig | GenBank Accession Number: BC033867 | Purification Method: Caprylic acid/ammonium sulfate precipitation |
| Size: 1000 µg/ml | GeneID (NCBI): 90 | CloneNo.: 2G1B1 |
| Source: Mouse | UNIPROT ID: Q04771 | |
| Isotype: IgG1 | Full Name: activin A receptor, type I | |
| Immunogen Catalog Number: AG1556 | Calculated MW: 509 aa, 57 kDa | |
| | Observed MW: 57 kDa | |

Applications

Tested Applications:
ELISA

Species Specificity:
human, mouse

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 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data