

ACVR1 Monoclonal antibody

Catalog Number: 60014-1-Ig

Basic Information

Catalog Number:

60014-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG1556

GenBank Accession Number:

BC033867

GeneID (NCBI):

90

UNIPROT ID:

Q04771

Full Name:

activin A receptor, type I

Calculated MW:

509 aa, 57 kDa

Observed MW:

57 kDa

Purification Method:

Caprylic acid/ammonium sulfate precipitation

CloneNo.:

2G1B1

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

