

For Research Use Only

ACVR1 Monoclonal antibody

Catalog Number: 60014-1-Ig **1 Publications**



Basic Information

Catalog Number: 60014-1-Ig	GenBank Accession Number: BC033867	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	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).

Notable Publications

Author	Pubmed ID	Journal	Application
Qian Jiang	37287422	CNS Neurosci Ther	

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

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:
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