

ACVR1 Monoclonal antibody

 Catalog Number: **67417-1-Ig** **1 Publications**

Basic Information

Catalog Number: 67417-1-Ig	GenBank Accession Number: BC033867	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 90	CloneNo.: 1F11B10
Source: Mouse	UNIPROT ID: Q04771	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:150-1:600 IF-P 1:200-1:800
Isotype: IgG2a	Full Name: activin A receptor, type I	
Immunogen Catalog Number: AG13508	Calculated MW: 509 aa, 57 kDa Observed MW: 57 kDa	

Applications

Tested Applications: IF-P, IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : pig brain tissue, rat brain tissue, NCI-H1299 cells, mouse brain tissue, JAR cells
Species Specificity: Human, Pig, Mouse, Rat	IHC : mouse heart tissue, mouse brain tissue
Cited Species: human	IF-P : mouse brain tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

ACVR1 (activin receptor type I), also known as ALK2 or ACTRI, 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
Chang Cao	33354912	J Cell Mol Med	WB

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

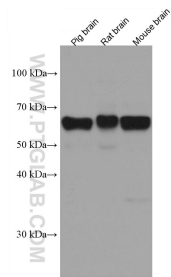
For technical support and original validation data for this product please contact:

T: 4006900926

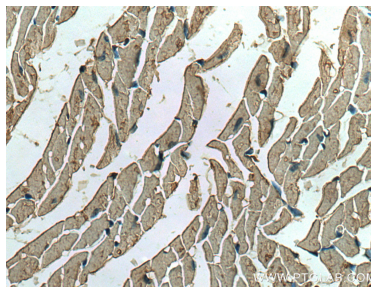
E: Proteintech-CN@ptglab.comW: ptgcn.com

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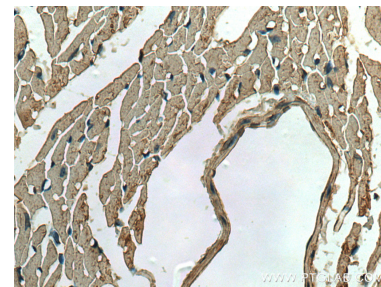
Selected Validation Data



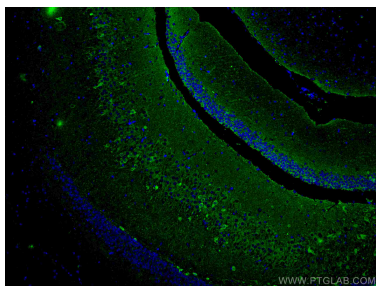
Various lysates were subjected to SDS PAGE followed by western blot with 67417-1-Ig (ACVR1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



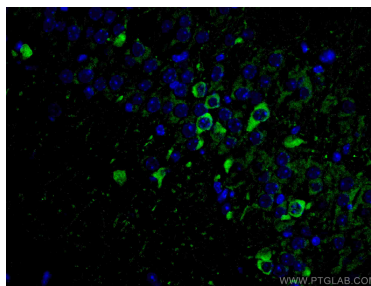
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 67417-1-Ig (ACVR1 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using ACVR1 antibody (67417-1-Ig, Clone: 1F11B10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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