

For Research Use Only

CoraLite® Plus 488-conjugated ACVR1 Monoclonal antibody



Catalog Number: **CL488-67417**

Basic Information

Catalog Number: CL488-67417	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: IF-P 1:50-1:500
Isotype: IgG2a	Full Name: activin A receptor, type I	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG13508	Calculated MW: 509 aa, 57 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF-P : mouse brain tissue,
Species Specificity: Human, Mouse	

Background Information

ACVR1 (activin receptor type I), also known as ALK2 or ACTR1, 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. Avoid exposure to light.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

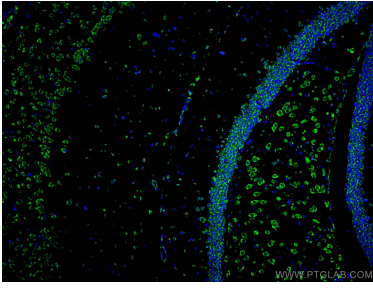
T: 4006900926

E: Proteintech-CN@ptglab.com

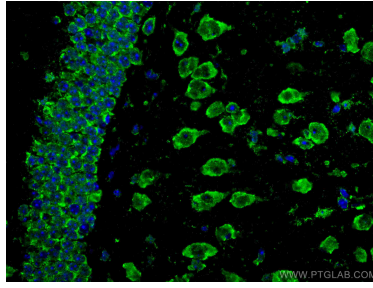
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite® Plus 488 ACVR1 antibody (CL488-67417, Clone: 1F11B10) at dilution of 1:200.



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