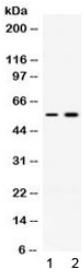
ACVR2B Antibody / ActRIIB (R32460)

Catalog No.	Formulation	Size
R32460	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.005% sodium azide
UniProt	Q13705
Applications	Western blot: 0.5-1ug/ml
Limitations	This ACVR2B antibody is available for research use only.



Western blot testing of 1) rat skeletal muscle and 2) human MCF7 lysate with ACVR2B antibody at 0.5ug/ml. Expected molecular weight ~57 kDa.

Description

Activin receptor type-2B is a protein that in humans is encoded by the ACVR2B gene. Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. 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. Type I and II receptors form a stable complex after ligand binding,

resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases. This ACVR2B gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor.

Application Notes

Optimal dilution of the ACVR2B antibody should be determined by the researcher.

Immunogen

Amino acids VVHKKMRPTIKDHWLKHPGLAQLCVTIEECWDHDAE from the human protein were used as the immunogen for the ACVR2B antibody.

Storage

Prior to reconstitution, store at 4oC. After reconstitution, the ACVR2B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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