CX Grade Sm Size

ACVR2B monoclonal antibody (MP03J), clone 1C11 (PE)

Catalog # H00000093-MP03J Size 3 x 50 ug, 50 ug

Specification

Product Description	PE conjugated mouse monoclonal antibody raised against a partial recombinant ACVR2B. This product is belong to Cell Culture Grade Antibody (CX Grade).
Immunogen	ACVR2B (NP_001097, 21 a.a. ~ 120 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	RGEAETRECIYYNANWELERTNQSGLERCEGEQDKRLHCYASWRNSSGTIELVKKGCWLDDFNC YDRQECVATEENPQVYFCCCEGNFCNERFTHLPEAG
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Conjugation	PE
Preparation Method	Cell Culture Production
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at 4°C.

Applications

- Flow Cytometry

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- Immunofluorescence

  Protocol Download

- Western Blot

Gene Info — ACVR2B

Entrez GeneID	93
GeneBank Accession#	NM_001106
Protein Accession#	NP_001097
Gene Name	ACVR2B
Gene Alias	ACTRIIB, ActR-IIB, MGC116908
Gene Description	activin A receptor, type IIB
Omim ID	602730
Gene Ontology	Hyperlink
Gene Summary	Activins are dimeric growth and differentiation factors which belong to the transforming growth fac tor-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 ligan d-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytopla smic domain with predicted serine/threonine specificity. Type I receptors are essential for signalin g; and type II receptors are required for binding ligands and for expression of type I receptors. Typ e 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 gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the li gand than activin A type II receptor. [provided by RefSeq
Other Designations	activin A type IIB receptor

Pathway

- Cytokine-cytokine receptor interaction
- TGF-beta signaling pathway

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Disease

- Genetic Predisposition to Disease
- Hyperparathyroidism
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder

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