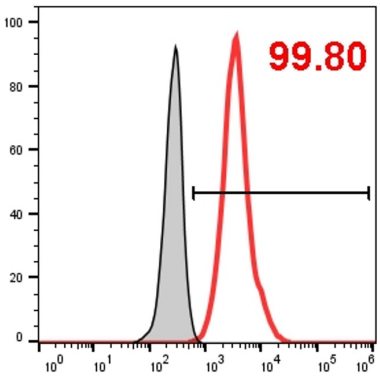
CX Grade

ACVR2B monoclonal antibody (M03J), clone 1C11

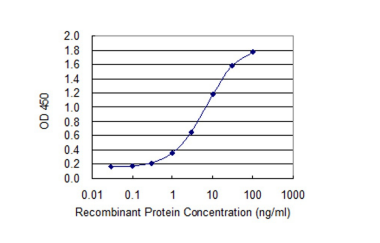
Catalog # H00000093-M03J Size 100 ug

Applications



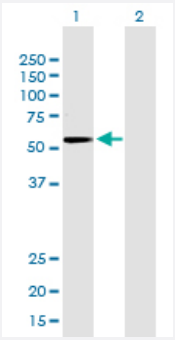
Flow Cytometry

Flow cytometric analysis of ACVR2B monoclonal antibody (M03J), clone 1C11 (Cat # H00000093-M03J) positive reactivity against human HeLa cell line.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACVR2B is 0.1 ng/ml as a capture antibody.

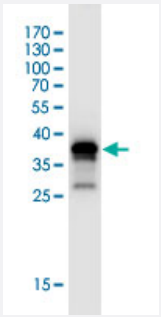


Western Blot (Transfected lysate)

Western Blot analysis of ACVR2B expression in transfected 293T cell line by ACVR2B monoclonal antibody (M03J), clone 1C11.

Lane 1: ACVR2B transfected lysate (Predicted MW: 34.2 KDa).
Lane 2: Non-transfected lysate.

Copyright © 2023 Abnova Corporation. All Rights Reserved.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	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)
Preparation Method	Cell Culture Production
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Flow Cytometry

  Flow cytometric analysis of ACVR2B monoclonal antibody (M03J), clone 1C11 (Cat # H00000093-M03J) positive reactivity against human HeLa cell line.

- ELISA

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged ACVR2B is 0.1 ng/ml as a capture antibody.

  Protocol Download

- Western Blot (Transfected lysate)

  Western Blot analysis of ACVR2B expression in transfected 293T cell line by ACVR2B monoclonal antibody (M03J), clone 1C11.

  Lane 1: ACVR2B transfected lysate (Predicted MW: 34.2 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

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 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 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. [provided by RefSeq

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Other Designations	activin A type IIB receptor

Pathway

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

Disease

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.