

Recombinant Anti-ACVR2B (aa 21-120) Antibody (V3S-1022-YC21)

Cat. No.: V3S-1022-YC21

Summary

Description	This product is a recombinant human antibody provided by CreativeBiolabs. The antibody is specific for Activin A Receptor Type 2B, Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. It can be used for ACVR2B detection in Enzyme-Linked Immunosorbent Assay. It was expressed in mammalian cells (293F or CHO) with antibody encoding genes and purified by affinity chromatography. Each lot of this antibody is quality control tested by SDS-PAGE and SEC-HPLC analysis. For highly sensitive assays, we recommend the ultra-purified form of the product, which has a lower endotoxin limit than standard antibody, less than 1 EU/mg or even 0.1 EU/mg.
Clonality	Monoclonal
Host Species	Human
Target Species	Human
Immunogen	Human activin receptor type-2b (ActRIIB)
Epitope	The epitope is in the AA 21-120 of ACVR2B.
Affinity	The affinity is in picomolar range, about 3.8 pM, determined by surface plasmon resonance.
Isotype	IgG2
Isotype Control	C34555
Secondary Antibody	C32400; C75370; C10513; C51635

Property

Expression Species	HEK293F or CHO Cell line
Conjugation	Unconjugated, also available for Biotin, HRP, FITC and PE-labeled form.
Purity	>95%, determined by SDS-PAGE and SEC-HPLC
Endotoxin	<1 EU/mg, determined by LAL method
Purification	Purified with Protein A or G affinity chromatography
Sterility	0.2 µM filtered
Formulation	PBS, pH 7.4
Preservation	No preservatives
Stabilizer	No stabilizers

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

Storage Store at 4°C within one or two weeks. Store at -20°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics.

Applications

Application ELISA

Target

Target ACVR2B

Alternative Name Activin A Receptor Type 2B; Activin A Receptor, Type IIB; EC 2.7.11.30; ActR-IIB; Activin Receptor Type IIB; Activin Receptor Type-2B; EC 2.7.11; ACTRIIB; HTX4

Gene ID [93](#)

UniProt [Q13705](#)

Introduction 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. Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins.

Research Area Immunology

Related Disease Musculoskeletal, Connective tissue disease (miscellaneous)

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