ACVR1B Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ACVR1B, Monoclonal Antibody
Full Product Name	ACVR1B (Activin A Receptor, Type IB, ACTRIB, ACVRLK4, ALK4, SKR2) (MaxLight 490)
Product Gene Name	anti-ACVR1B antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	6G11
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes human ACVR1B.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	Recombinant protein corresponding to aa24-126 from human ACVR1B with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SGPRGVQALLCACTSCLQANYTCETDGACMVSIFNLD GMEHHVRTCIPKVELVPAGKPFYCLSSEDLRNTHCCY TDYCNRIDLRVPSGHLKEPEHPSMWGPVE
Conjugate	MaxLight490
Product Categories/Family for anti-ACVR1B antibody	Antibodies; Activin Receptors
Applications Tested/Suitable for anti-ACVR1B antibody	FLISA, Western Blot (WB)
Application Notes for anti-ACVR1B antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ACVR1B antibody	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 a 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. This gene encodes activin A type IB receptor, composed of 11 exons. Alternative splicing and alternative polyadenylation result in 3 fully described transcript variants. The mRNA expression of variants 1, 2, and 3 is confirmed, and a potential fourth variant contains an alternative exon 8 and lacks exons 9 through 11, but its mRNA expression has not been confirmed.
Other Notes	Small volumes of anti-ACVR1B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ACVR1B purchase	MBS6204731 is an antibody targeting ACVR1B. Also known as ACVR1B (Activin A Receptor, Type IB, ACTRIB, ACVRLK4, ALK4, SKR2) (MaxLight 490). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACVR1B. It may not necessarily be applicable to this product.

NCBI GI #	12652987
NCBI GeneID	91
NCBI Accession #	AAH00254
UniProt Related Accession #	P36896
NCBI Official Full Name	Activin A receptor, type IB
NCBI Official Synonym Full Names	activin A receptor type 1B
NCBI Official Symbol	ACVR1B
NCBI Official Synonym Symbols	ALK4; SKR2; ACTRIB; ACVRLK4
Protein Family	Activin receptor
NCBI Protein Information	activin receptor type-1B
NCBI Summary for ACVR1B	This gene encodes an activin A type IB receptor. 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 and two type II receptors. This protein is a type I receptor which is essential for signaling. Mutations in this gene are associated with pituitary tumors. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Jun 2010]
Research Articles on ACVR1B	**1.** Multiple emphysema apicobasal distribution loci colocalize to regulatory elements that are active across multiple tissues and cell types, and functional analyses confirm the presence of an emphysema apicobasal distribution-associated functional variant that regulates ACVR1B expression, indicating that transforming growth factor-b signaling plays a role in the emphysema apicobasal distribution phenotype.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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