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Datasheet for ABIN392231 anti-Activin A Receptor Type IB/ALK-4 antibody (N-Term)





Overview

Quantity:	400 µL
Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)
Binding Specificity:	AA 39-68, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS)
Product Details	
Immunogen:	This Activin A Receptor Type IB (ACVR1B) antibody is generated from rabbits immunized with a
	KLH conjugated synthetic peptide between 39-68 amino acids from the N-terminal region of
	human Activin A Receptor Type IB (ACVR1B).
Clone:	RB3740
Isotype:	Ig Fraction
Predicted Reactivity:	Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Target Details	
Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)
Alternative Name:	Activin A Receptor Type IB (ACVR1B) (ACVR1B Products)

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Target Details

Background:	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. The gene for
	ACVR1B (activin A type IB receptor) is 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.
Molecular Weight:	56807

Gene ID:	91
NCBI Accession:	NP_004293, NP_064732, NP_064733
UniProt:	P36896

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. WB: 1:1000. FC: 1:25
Restrictions:	For Research Use only

Handling

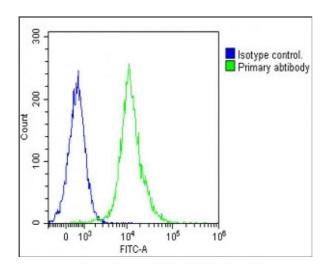
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

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Expiry Date:

6 months

Images

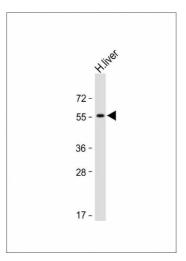


Flow Cytometry

Image 1. Overlay histogram showing Jurkat cells stained with (ABIN392231 and ABIN2841925)(green line). The cells were fixed with 2 % paraformaldehyde and then permeabilized with 90 % methanol for 10 min. The cells were then icubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1 μ g/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

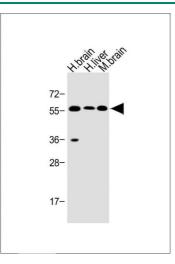
Western Blotting

Image 2. Anti-Activin A Receptor Type IB (ACVR1B) Antibody (N-term) at 1:1000 dilution + Human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



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Images



Western Blotting

Image 3. All lanes : Anti-Activin A Receptor Type IB (ACVR1B) Antibody (N-term) at 1:1000 dilution Lane 1: Human brain lysate Lane 2: Human liver lysate Lane 3: Mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the product details page for more images. Overall 4 images are available for ABIN392231.