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Datasheet for ABIN6259761 anti-ACVR2B antibody (Internal Region)

2 Images



Overview

Quantity:	100 μL
Target:	ACVR2B
Binding Specificity:	Internal Region
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACVR2B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	A synthesized peptide derived from human ACVR2B, corresponding to a region within the internal amino acids.
lsotype:	lgG
Specificity:	ACVR2B Antibody detects endogenous levels of total ACVR2B.
Predicted Reactivity:	Pig,Bovine,Horse,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:

ACVR2B

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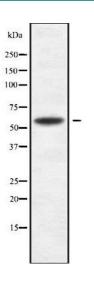
Alternative Name:	ACVR2B (ACVR2B Products)
Background:	Description: Transmembrane serine/threonine kinase activin type-2 receptor forming an activir
	receptor complex with activin type-1 serine/threonine kinase receptors (ACVR1, ACVR1B or
	ACVR1c). Transduces the activin signal from the cell surface to the cytoplasm and is thus
	regulating many physiological and pathological processes including neuronal differentiation
	and neuronal survival, hair follicle development and cycling, FSH production by the pituitary
	gland, wound healing, extracellular matrix production, immunosuppression and carcinogenesis
	Activin is also thought to have a paracrine or autocrine role in follicular development in the
	ovary. Within the receptor complex, the type-2 receptors act as a primary activin receptors
	(binds activin-A/INHBA, activin-B/INHBB as well as inhibin-A/INHA-INHBA). The type-1
	receptors like ACVR1B act as downstream transducers of activin signals. Activin binds to type-
	receptor at the plasma membrane and activates its serine-threonine kinase. The activated
	receptor type-2 then phosphorylates and activates the type-1 receptor. Once activated, the type
	1 receptor binds and phosphorylates the SMAD proteins SMAD2 and SMAD3, on serine
	residues of the C-terminal tail. Soon after their association with the activin receptor and
	subsequent phosphorylation, SMAD2 and SMAD3 are released into the cytoplasm where they
	interact with the common partner SMAD4. This SMAD complex translocates into the nucleus
	where it mediates activin-induced transcription. Inhibitory SMAD7, which is recruited to ACVR1
	through FKBP1A, can prevent the association of SMAD2 and SMAD3 with the activin receptor
	complex, thereby blocking the activin signal. Activin signal transduction is also antagonized by
	the binding to the receptor of inhibin-B via the IGSF1 inhibin coreceptor.
	Gene: ACVR2B
Molecular Weight:	58 kDa
Gene ID:	93
UniProt:	Q13705
Pathways:	Hormone Transport, Cancer Immune Checkpoints
Application Details	
Application Notes:	WB 1:1000-3000, IHC 1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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Handling

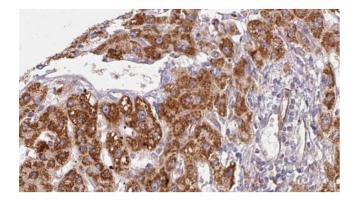
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot analysis of ACVR2B using K562 whole cell lysates



Immunohistochemistry

Image 2. ABIN6279060 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22jãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary

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