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Datasheet for ABIN1714650 anti-ACVR2B antibody (AA 45-150)

3 Images



Overview

Quantity:	100 µL
Target:	ACVR2B
Binding Specificity:	AA 45-150
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACVR2B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ACVR2B/ACTR-IIB
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog,Cow,Sheep,Pig
Purification:	Purified by Protein A.
Torgot Dotoilo	

Target Details

Target:

ACVR2B

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Target Details	
Alternative Name:	ACVR2B/ACTR2B (ACVR2B Products)
Background:	Synonyms: HTX4, ACTRIIB, ActR-IIB, Activin receptor type-2B, Activin receptor type IIB, ACVR2B
	Background: Transmembrane serine/threonine kinase activin type-2 receptor forming an activin
	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-2
	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 ACVR1E
	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 ID:	93
UniProt:	Q13705
Pathways:	Hormone Transport, Cancer Immune Checkpoints
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500

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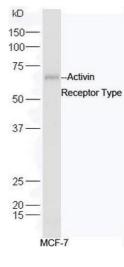
IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200

IF(ICC) 1:50-200

Application Details

	ICC 1:100-500	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 μg/μL	
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.	
Preservative:	ProClin	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.	
Expiry Date:	12 months	

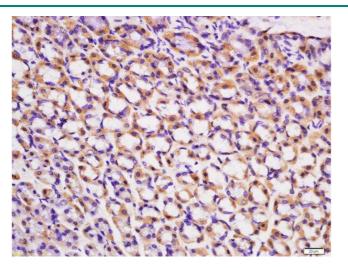
Images



Western Blotting

Image 1. Human MCF-7 cell lysates probed with Rabbit Anti-ACVR2B/ACTR-IIB Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.

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Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded rat stomach labeled with Rabbit Anti-ACVR2B/ACTR-IIB Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining

Western Blotting

Image 3. Human A549 cell lysates probed with Rabbit Anti-ACVR2B/ACTR-IIB Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.

