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anti-ACVR1 antibody (N-Term)





Overview

Overview	
Quantity:	100 μL
Target:	ACVR1 (ACRV1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Horse, Cow, Rabbit, Guinea Pig, Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACVR1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ACVR1
Sequence:	TCKTPPSPGQ AVECCQGDWC NRNITAQLPT KGKSFPGTQN FHLEVGLIIL
Predicted Reactivity:	Cow: 100%, Dog: 93%, Goat: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against ACVR1. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

Target Details

Target: ACVR1 (ACRV1)

Alternative Name:	ACVR1 (ACRV1 Products)	
Background:	Activin receptors are all transmembrane proteins, composed of a ligand-binding extracellular	
	domain with 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. ACVR1 is activin A type I receptor which signals a particular	
	transcriptional response in concert with activin type II receptors. 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 (
	and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-	
	binding extracellular domain with 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 I	
	receptor which signals a particular transcriptional response in concert with activin type II receptors.	
	Alias Symbols: ACTRI, ACVRLK2, ALK2, FOP, SKR1, TSRI, ACVR1A	
	Protein Interaction Partner: UBC, USP15, BMPR1A, ACVR1, INHBA, ACVR2A, PEG10, SMAD6,	
	SMAD7, BAMBI, SMURF1, IGSF1, TSC22D1, TGFBR1, DCAF6, FGD6, FCH01, PLEK, TTC17,	
	RHEBL1, WDR61, RASL12, RASD2, PLEKHJ1, CDK14, NEK8, DUSP13, NUAK2, FKBP4, RAB6B,	
	RAB17, UBXN1, FBXO30, RHOJ, PLEKHB1, UB	
	Protein Size: 509	
Molecular Weight:	55 kDa	
Gene ID:	90	
NCBI Accession:	NM_001105, NP_001096	
UniProt:	Q04771	
Application Details		
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.	
Comment:	Antigen size: 509 AA	

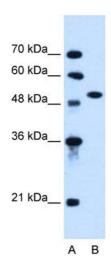
Application Details

Restrictions:	For Research Use only
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Handling

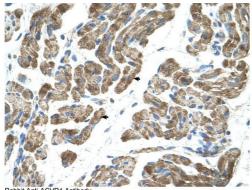
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

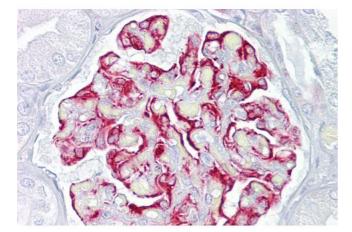
Image 1. WB Suggested Anti-ACVR1 Antibody Titration: 0.2-1 ug/ml Positive Control: HepG2 cell lysate



Rabbit Anti-ACVR1 Antibody
Catalog Number: ARP45040
Lot Number: QC15019
Paraffin Embeded Tissue: Human Muscle
Cells with Positive label: Skeletal muscle cells (Indicated with Arrows)
Antibody Concentration: 4.0-8.0 μg/ml

Immunohistochemistry

Image 2. Human Muscle



Immunohistochemistry

Image 3. Kidney

Please check the product details page for more images. Overall 4 images are available for ABIN2782109.