Datasheet for ABIN499205

anti-ACVR1 antibody (N-Term)

1 Image

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Overview

Quantity:	0.1 mg
Target:	ACVR1 (ACRV1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACVR1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	ACVR1 antibody was raised against a 14 amino acid peptide near the amino terminus of the human ACVR1.
Isotype:	IgG
Specificity:	This antibody reacts to ACVR1 near the amino terminus.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	ACVR1 (ACRV1)
Abstract:	ACRV1 Products
Background:	Activins are dimeric growth and differentiation factors which belong to the transforming growth

Target Details

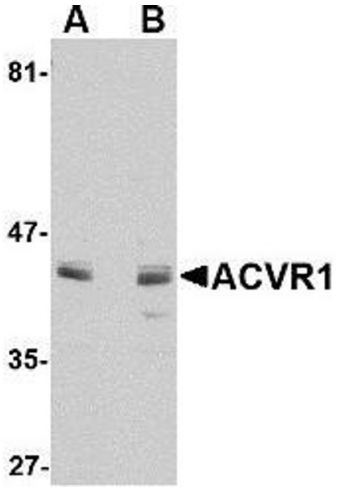
	factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I and two type II receptors. Unlike ACVR1B and ACVR1C, ACVR1, also known as activin receptor-like kinase 2 (ALK2), can not transduce activin-mediated signaling, but will transduce BMP and Mullerian inhibiting substance (MIS) group signaling. It is thought that ACVR1 also inhibits activin signaling by blocking the binding of activin to its type II receptor. Recent studies indicate that genetic variation in ACVR1 is associated with polycystic ovary syndrome, suggesting that ACVR1 signaling contributes to disturbed folliculogenesis in these patients. At least four isoforms of ACVR1 are known to exist. This antibody is predicted to have no cross-reactivity to ACVR1B or ACVR1C.Synonyms: ACRV1A, ACVRLK2, ALK2, Activin receptor type IA, Activin receptor-like kinase 2, SKR1, Serine/threonine-protein kinase receptor R1, TGF-B superfamily receptor type I
Gene ID:	90
NCBI Accession:	NP_001096
UniProt:	Q04771

Application Details

Application Notes:	ELISA. Western Blot: ACVR1 antibody can be used for detection of ACVR1 at 1 - 2 µg/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Buffer:	PBS containing 0.02 % 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
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Western Blotting

Image 1. Western blot analysis of ACVR1 in A549 cell lysate with AP30014PU-N ACVR1 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.