

Datasheet for ABIN3029855
anti-ACVR1 antibody (AA 132-162)

5 Images

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Overview

Quantity:	0.4 mL
Target:	ACVR1 (ACRV1)
Binding Specificity:	AA 132-162
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACVR1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	A portion of amino acids 132-162 from the human protein was used as the immunogen for this ALK2 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat, Bovine
Purification:	Purified

Target Details

Target:	ACVR1 (ACRV1)
Alternative Name:	ALK2 (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 (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 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 (activin A type I receptor) signals a particular transcriptional response in concert with activin type II receptors.

UniProt: [Q04771](#)

Application Details

Application Notes: Titration of the ALK2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100

Restrictions: For Research Use only

Handling

Format: Liquid

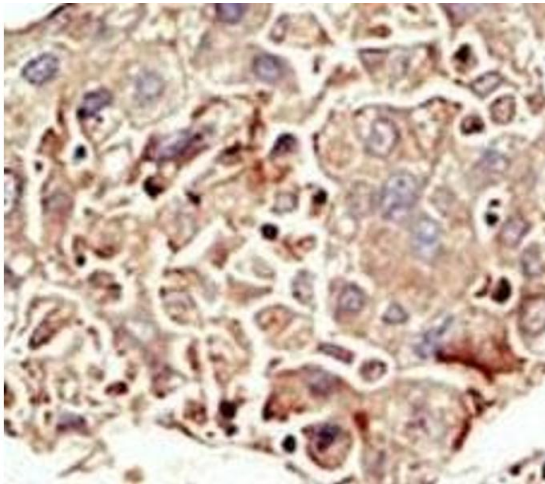
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

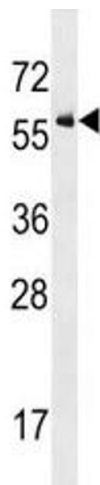
Storage: -20 °C

Storage Comment: Aliquot the ALK2 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



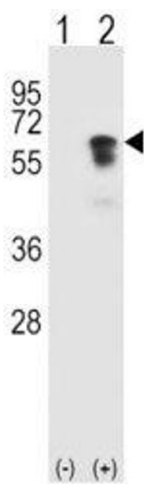
Immunohistochemistry

Image 1. IHC analysis of FFPE human hepatocarcinoma tissue stained with the ALK2 antibody



Western Blotting

Image 2. ALK2 antibody western blot analysis in U937 lysate



Western Blotting

Image 3. Western blot analysis of ALK2 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (2) with the ACVR1 gene.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3029855.