

Datasheet for ABIN3021439  
**anti-SMAD1 antibody (AA 20-240)**



[Go to Product page](#)

7 Images 1 Publication

## Overview

Quantity:	100 µL
Target:	SMAD1
Binding Specificity:	AA 20-240
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 20-240 of human Smad1 (NP_001003688.1).
Sequence:	WKQGDEEEKW AEKAVDALVK KLKKKKGAME ELEKALSCPG QPSNCVTIPR SLDGRLQVSH RKGLPHVIYC RVWRWPDQLS HHELKPLECC EFPFGSKQKE VCINPYHYKR VESPVLPPLV VPRHSEYNPQ HSLLAQFRNL GQNEPHMPLN ATFPDSFQQP NSHPFPHSPN SSYPNSPGSS SSTYPHSPTS SDPGSPFQMP ADTPPPAYLP PEDPMTQDGS Q
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	SMAD1
Alternative Name:	SMAD1 ( <a href="#">SMAD1 Products</a> )
Background:	<p>The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed.,BSP-1,BSP1,JV4-1,JV41,MADH1,MADR1,Smad1,SMAD1,Epigenetics &amp; Nuclear Signaling,Transcription Factors,Cancer,Signal Transduction,Cell Biology &amp; Developmental Biology,Growth factor,TGF-b-Smad Signaling Pathway,ESC Pluripotency and Differentiation,Immunology &amp; Inflammation,Stem Cells,SMADs,SMAD1</p>
Molecular Weight:	15 kDa/52 kDa
Gene ID:	4086
UniProt:	<a href="#">Q15797</a>
Pathways:	<a href="#">Stem Cell Maintenance</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Skeletal Muscle Fiber Development</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

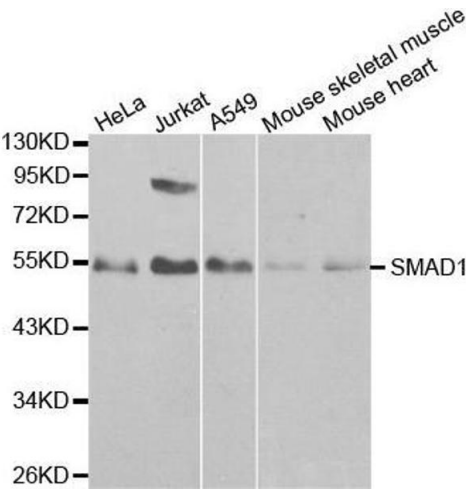
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

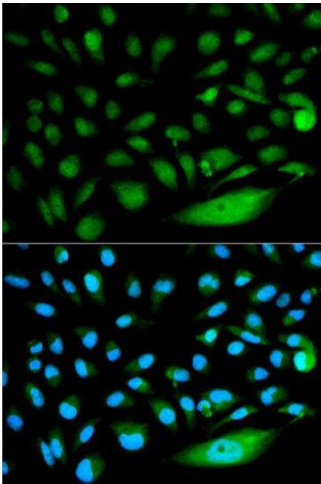
Product cited in:	Kong, Liang, Chen, Yang, Liu, Li, Feng, Wu, Liu, Tang, Yu, Ou, Lu, Yan: "Hyaluronan negatively regulates vascular calcification involving BMP2 signaling." in: <b>Laboratory investigation; a journal of technical methods and pathology</b> , Vol. 98, Issue 10, pp. 1320-1332, (2018) ( <a href="#">PubMed</a> ).
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Images



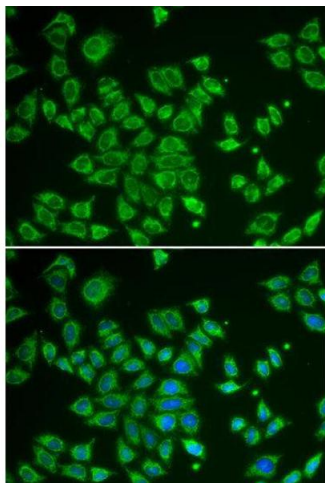
Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using SMAD1 antibody.



Immunofluorescence

**Image 2.**



#### Immunofluorescence

##### Image 3.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3021439.