

Datasheet for ABIN6148088  
**anti-SMAD4 antibody (AA 160-450)**



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2 Images

## Overview

Quantity:	100 µL
Target:	SMAD4
Binding Specificity:	AA 160-450
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 160-450 of human Smad4 (NP_005350.1).
Sequence:	DEYVHDFEGQ PSLSTEGHSI QTIQHPPSNR ASTETYSTPA LLAPSESAT STANFPNIPV ASTSQPASIL GGSHEGLLQ IASGPQPGQQ QNGFTGQPAT YHHNSTTTWT GSRTAPYTPN LPHHQNGHLQ HHPPMPPHPG HYWPVHNELA FQPPISNHPA PEYWCSIAYF EMDVQVGETF KVPSSCPIVT VDG YVDPSGG DRFCLGQLSN VHRTEAIERA RLHIGKGVQL ECKGEGDVVW RCLSDHAVFV QSYLDREAG RAPGDAVHKI YPSAYIKVFD LRQCHRQMQQ Q
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

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Target: SMAD4

Alternative Name: SMAD4 ([SMAD4 Products](#))

Background: This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to TGF-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome.,DPC4,JIP,MADH4,MYHRS,Smad4,SMAD4,Epigenetics & Nuclear Signaling,Transcription Factors,Cancer,Tumor suppressors,Signal Transduction,MAPK-JNK Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Cell Cycle,G1/S Checkpoint,TGF-b-Smad Signaling Pathway,ESC Pluripotency and Differentiation,Endocrine & Metabolism,Stem Cells,Cardiovascular,Hypoxia,Heart,Cardiogenesis,Hypertrophy,SMADs,SMAD4

Molecular Weight: 60 kDa

Gene ID: 4089

UniProt: [Q13485](#)

Pathways: [Cell Division Cycle](#), [Chromatin Binding](#), [Autophagy](#)

## Application Details

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Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200

Comment: HIGH QUALITY

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

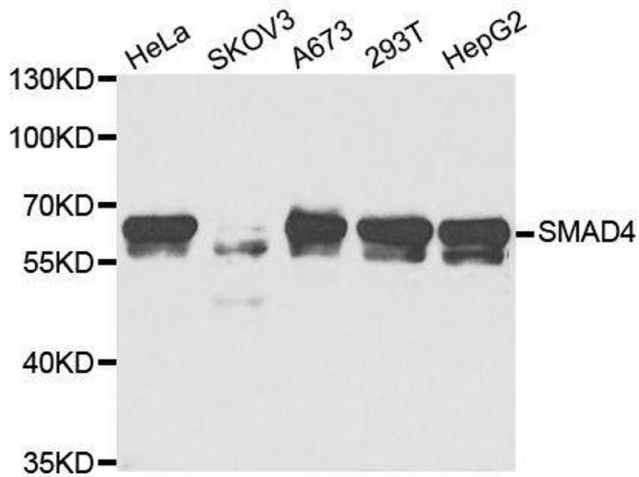
## Handling

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

Storage: -20 °C

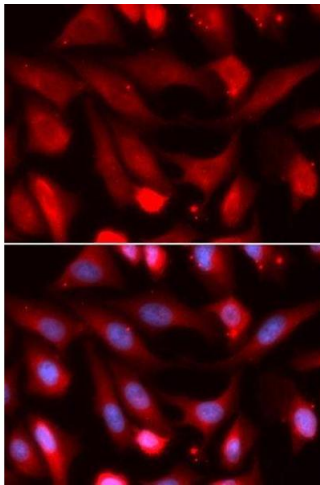
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using SMAD4 antibody.



### Immunofluorescence

**Image 2.** Immunofluorescence analysis of U2OS cells using SMAD4 antibody.