

Datasheet for ABIN7270343  
**anti-SMAD1 antibody**



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7 Images

## Overview

|              |  |
|--------------|--|
| Quantity:    | 100 µL   |
| Target:      | SMAD1  |
| Reactivity:  | Human  |
| Host:        | Rabbit   |
| Clonality:   | Monoclonal                                     |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

## Product Details

|                   |  |
|-------------------|--|
| Purpose:          | [KO Validated] Smad1 Rabbit mAb                |
| Immunogen:        | A synthesized peptide derived from human Smad1 |
| Isotype:          | IgG  |
| Cross-Reactivity: | Human, Mouse                                   |
| Characteristics:  | Monoclonal Antibodies                          |
| Purification:     | Affinity purification                          |
| Grade:            | KO Validated                                   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | SMAD1  |
| Alternative Name: | SMAD1 ( <a href="#">SMAD1 Products</a> )   |
| Background:       | The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene |

## Target Details

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. [provided by RefSeq, Jul 2008],BSP-1;BSP1;JV4-1;JV41;MADH1;MADR1;Smad1;SMAD1,Cancer,Cell Biology & Developmental Biology,Epigenetics & Nuclear Signaling,ESC Pluripotency and Differentiation,Growth factors,Immunology & Inflammation,Signal Transduction,Stem Cells,TGF-b-Smad Signaling Pathway,TGF-b-Smad Signaling Pathway\_SMADs,Transcription Factors,SMAD1

|                   |   |
|-------------------|---|
| Molecular Weight: | 58kDa   |
| 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

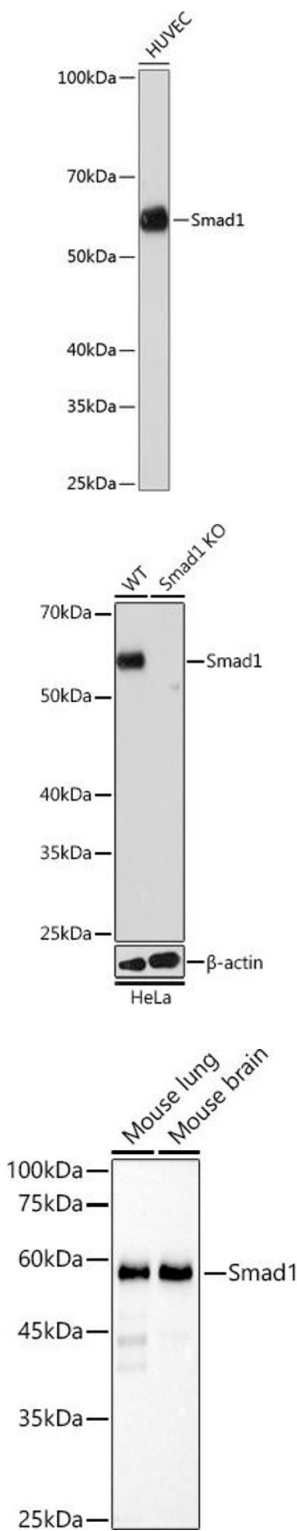
|                    |                                   |
|--------------------|-----------------------------------|
| Application Notes: | WB,1:500 - 1:2000,IF,1:50 - 1:200 |
| Restrictions:      | For Research Use only             |

## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Buffer:            | PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.   |
| 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: Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

**Image 1.** Western blot analysis of extracts of HUVEC cells, using Smad1 antibody (ABIN7270343) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

Western Blotting

**Image 2.** Western blot analysis of extracts from wild type (WT) and Smad1 knockout (KO) HeLa cells, using Smad1 antibody (ABIN7270343) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

Western Blotting

**Image 3.** Western blot analysis of extracts of various cell lines, using Smad1 antibody (ABIN7270343) at 1:1000 dilution. 293T cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN7270343.