

Datasheet for ABIN5542387
anti-SMAD1 antibody (AA 1-110)[Go to Product page](#)

4 Images

Overview

| | |
|----------------------|--|
| Quantity: | 0.1 mg |
| Target: | SMAD1 |
| Binding Specificity: | AA 1-110 |
| Reactivity: | Human, Mouse, Monkey |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This SMAD1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FACS) |

Product Details

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|---------------|--|
| Immunogen: | Purified recombinant fragment of human SMAD1 (AA: 1-110) expressed in E. coli. |
| Clone: | 4E12H10 |
| Isotype: | IgG1 |
| Purification: | purified |

Target Details

| | |
|-------------------|---|
| Target: | SMAD1 |
| Alternative Name: | SMAD1 (SMAD1 Products) |
| Background: | Description: The protein encoded by this gene belongs to the SMAD, a family of proteins similar |

Target Details

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.,

Aliases: BSP1, JV41, BSP-1, JV4-1, MADH1, MADR1

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|-------------------|--------|
| Molecular Weight: | 52 kDa |
|-------------------|--------|

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|----------|------|
| Gene ID: | 4086 |
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|-------|------|
| HGNC: | 4086 |
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| Pathways: | Stem Cell Maintenance , Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development |
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Application Details

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| Application Notes: | ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: , ICC: , FCM: |
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|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

Handling

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|---------|--------|
| Format: | Liquid |
|---------|--------|

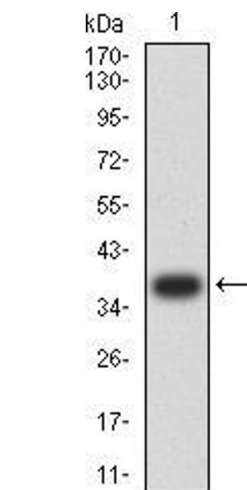
| | |
|---------|---|
| Buffer: | Purified antibody in PBS with 0.05 % sodium azide |
|---------|---|

| | |
|---------------|--------------|
| Preservative: | Sodium azide |
|---------------|--------------|

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

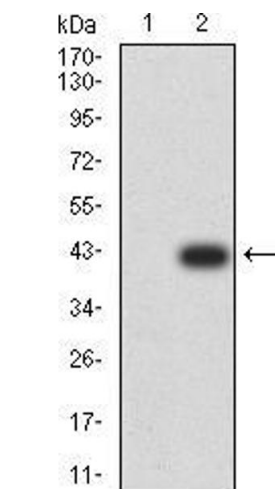
| | |
|----------|-------------|
| Storage: | 4 °C/-20 °C |
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| | |
|------------------|----------------------------------|
| Storage Comment: | 4°C, -20°C for long term storage |
|------------------|----------------------------------|



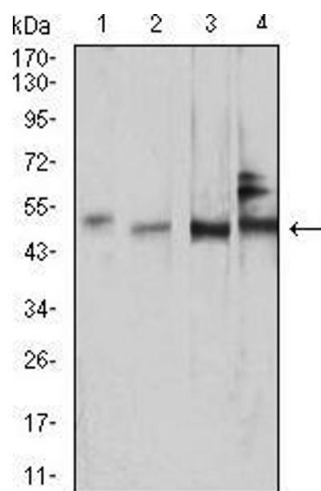
Western Blotting

Image 1. Western blot analysis using SMAD1 mAb against human SMAD1 (AA: 1-110) recombinant protein. (Expected MW is 38.5 kDa)



Western Blotting

Image 2. Western blot analysis using SMAD1 mAb against HEK293 (1) and SMAD1 (AA: 1-110)-hlgGfC transfected HEK293 (2) cell lysate.



Western Blotting

Image 3. Western blot analysis using SMAD1 mouse mAb against NIH/3T3 (1), COS7 (2), HUVEC (3), and C2C12 (4) cell lysate.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN5542387.