

**SMAD6 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI16233****Specification**

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**SMAD6 antibody - N-terminal region - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB  |
| Primary Accession | <a href="#">O43541</a>                                |
| Other Accession   | <a href="#">NM_005585</a> , <a href="#">NP_005576</a> |
| Reactivity        | Human, Pig, Bovine, Dog                               |
| Predicted         | Human, Pig, Bovine, Dog                               |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Calculated MW     | 53kDa KDa   |

**SMAD6 antibody - N-terminal region - Additional Information****Gene ID** 4091**Alias Symbol** HsT17432, MADH6, MADH7**Other Names**

Mothers against decapentaplegic homolog 6, MAD homolog 6, Mothers against DPP homolog 6, SMAD family member 6, SMAD 6, Smad6, hSMAD6, SMAD6, MADH6

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-SMAD6 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

SMAD6 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**SMAD6 antibody - N-terminal region - Protein Information****Name** SMAD6**Synonyms** MADH6**Function**

Transforming growth factor-beta superfamily receptors signaling occurs through the Smad family of intracellular mediators. SMAD6 is an inhibitory Smad (i-Smad) that negatively regulates signaling downstream of type I transforming growth factor-beta (PubMed: &lt;a href="http://www.uniprot.org/citations/10647776" target="\_blank"&gt;10647776&lt;/a&gt;, PubMed: &lt;a href="http://www.uniprot.org/citations/10708948" target="\_blank"&gt;10708948&lt;/a&gt;, PubMed: &lt;a href="http://www.uniprot.org/citations/10708949" target="\_blank"&gt;10708949&lt;/a&gt;, PubMed: &lt;a href="http://www.uniprot.org/citations/10708949" target="\_blank"&gt;10708949&lt;/a&gt;, PubMed: &lt;a href="http://www.uniprot.org/citations/10708949" target="\_blank"&gt;10708949&lt;/a&gt;).

[16951688](http://www.uniprot.org/citations/16951688)</a>, PubMed:<a href="http://www.uniprot.org/citations/22275001" target="\_blank">22275001</a>, PubMed:<a href="http://www.uniprot.org/citations/30848080" target="\_blank">30848080</a>, PubMed:<a href="http://www.uniprot.org/citations/9436979" target="\_blank">9436979</a>, PubMed:<a href="http://www.uniprot.org/citations/9759503" target="\_blank">9759503</a>). Acts as a mediator of TGF-beta and BMP anti-inflammatory activities. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and NF-kappa-B- mediated expression of pro-inflammatory genes (PubMed:<a href="http://www.uniprot.org/citations/16951688" target="\_blank">16951688</a>). Blocks the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor- activated SMAD1-binding (PubMed:<a href="http://www.uniprot.org/citations/30848080" target="\_blank">30848080</a>, PubMed:<a href="http://www.uniprot.org/citations/9436979" target="\_blank">9436979</a>). Binds to regulatory elements in target promoter regions (PubMed:<a href="http://www.uniprot.org/citations/16491121" target="\_blank">16491121</a>).

### Cellular Location

Nucleus.

### Tissue Location

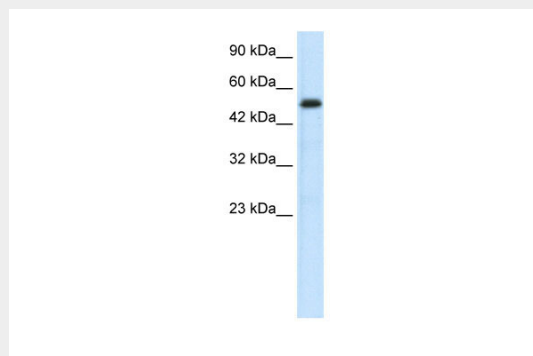
[Isoform B]: Expressed in the brain, heart, ovary, peripheral blood leukocytes, small intestine, spleen, thymus, bone marrow, fetal liver and lymph nodes.

### SMAD6 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

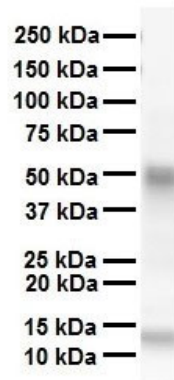
### SMAD6 antibody - N-terminal region - Images



WB Suggested Anti-SMAD6 Antibody Titration: 0.2-1 µg/ml

Positive Control: Jurkat cell lysate

There is BioGPS gene expression data showing that SMAD6 is expressed in Jurkat



WB Suggested Anti-SMAD6 antibody Titration: 1  $\mu$ g/ml  
Sample Type: Human heart

### **SMAD6 antibody - N-terminal region - Background**

Acts as a mediator of TGF-beta and BMP anti-inflammatory activity. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and NF-kappa-B-mediated expression of proinflammatory genes. May block the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor-activated SMAD1-binding. Binds to regulatory elements in target promoter regions.

### **SMAD6 antibody - N-terminal region - References**

- Riggins G.J.,et al.Nat. Genet. 13:347-349(1996).
- Hata A.,et al.Genes Dev. 12:186-197(1998).
- Afrakhte M.,et al.Biochem. Biophys. Res. Commun. 249:505-511(1998).
- Hagiwara K.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases.
- Konrad L.,et al.Submitted (NOV-2007) to the EMBL/GenBank/DDBJ databases.