

**SMAD6 Antibody (clone 2A6)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS13354****Specification**

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**SMAD6 Antibody (clone 2A6) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC                    |
| Primary Accession | <a href="#">O43541</a> |
| Reactivity        | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Calculated MW     | 53kDa KDa              |

**SMAD6 Antibody (clone 2A6) - Additional Information****Gene ID** 4091**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

**Reconstitution & Storage**

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

**Precautions**

SMAD6 Antibody (clone 2A6) is for research use only and not for use in diagnostic or therapeutic procedures.

**SMAD6 Antibody (clone 2A6) - 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: [9436979](http://www.uniprot.org/citations/9436979), PubMed: [16951688](http://www.uniprot.org/citations/16951688), PubMed: [22275001](http://www.uniprot.org/citations/22275001), PubMed: [9759503](http://www.uniprot.org/citations/9759503), PubMed: [10647776](http://www.uniprot.org/citations/10647776), PubMed: [10708948](http://www.uniprot.org/citations/10708948), PubMed: [10708949](http://www.uniprot.org/citations/10708949), PubMed: [30848080](http://www.uniprot.org/citations/30848080)). 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/9436979" target="\_blank">9436979</a>, PubMed:<a href="http://www.uniprot.org/citations/30848080" target="\_blank">30848080</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**

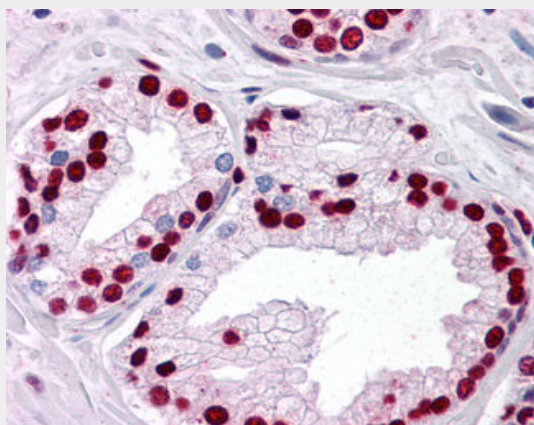
[Isoform B]: Expressed in the brain, heart, ovary, peripheral blood leukocytes, small intestine, spleen, thymus, bone marrow, fetal liver and lymph nodes.

### **SMAD6 Antibody (clone 2A6) - 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 (clone 2A6) - Images**



Anti-SMAD6 antibody IHC of human prostate.

### **SMAD6 Antibody (clone 2A6) - Background**

Acts as a mediator of TGF-beta and BMP antiinflammatory 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 (clone 2A6) - 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.