

**Smad1 (3H11) Rabbit Monoclonal Antibody**  
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**Catalog # AP93684****Specification**

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**Smad1 (3H11) Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, FC, ICC
Primary Accession	<a href="#">Q15797</a>
Reactivity	Human
Clonality	Monoclonal
Calculated MW	52260

**Smad1 (3H11) Rabbit Monoclonal Antibody - Additional Information****Gene ID** 4086**Other Names**

Mothers against decapentaplegic homolog 1, MAD homolog 1, Mothers against DPP homolog 1, JV4-1, Mad-related protein 1, SMAD family member 1, SMAD 1, Smad1, hSMAD1, Transforming growth factor-beta-signaling protein 1, BSP-1, SMAD1, BSP1, MADH1, MADR1

**Dilution**

WB~~1:1000  
IHC~~1:100~500  
IF~~1:50~200  
FC~~1:10~50  
ICC~~N/A

**Storage Conditions**

-20°C

**Smad1 (3H11) Rabbit Monoclonal Antibody - Protein Information****Name** SMAD1**Synonyms** BSP1, MADH1, MADR1**Function**

Transcriptional modulator that plays a role in various cellular processes, including embryonic development, cell differentiation, and tissue homeostasis (PubMed:[9335504](http://www.uniprot.org/citations/9335504)). Upon BMP ligand binding to their receptors at the cell surface, is phosphorylated by activated type I BMP receptors (BMPRI) and associates with SMAD4 to form a heteromeric complex which translocates into the nucleus acting as transcription factor (PubMed:[33667543](http://www.uniprot.org/citations/33667543)). In turn, the hetero-trimeric complex recognizes cis-regulatory elements containing Smad Binding Elements (SBEs) to modulate the outcome of the signaling network (PubMed:[33667543](http://www.uniprot.org/citations/33667543)).

SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1. Positively regulates BMP4-induced expression of odontogenic development regulator MSX1 following IPO7-mediated nuclear import (By similarity).

#### Cellular Location

Cytoplasm. Nucleus Note=Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with SMAD4 (PubMed:15647271). Co-localizes with LEMD3 at the nucleus inner membrane (PubMed:15647271). Exported from the nucleus to the cytoplasm when dephosphorylated (By similarity) {ECO:0000250|UniProtKB:P70340, ECO:0000269|PubMed:15647271}

#### Tissue Location

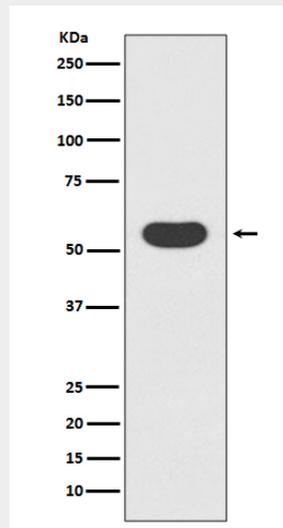
Ubiquitous. Highest expression seen in the heart and skeletal muscle

### Smad1 (3H11) Rabbit Monoclonal Antibody - 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](#)

### Smad1 (3H11) Rabbit Monoclonal Antibody - Images



Western blot analysis of Smad1 expression in 293T cell lysate.