

**Product Name: Smad2/3 (6F7) Mouse Monoclonal Antibody**  
**Catalog #: AMM03601**

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## Summary

<b>Production Name</b>	Smad2/3 (6F7) Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC-P
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
<b>Purification</b>	Affinity Purification

## Immunogen

<b>Gene Name</b>	SMAD3/SMAD2 SMAD2; MADH2; MADR2; MAD homolog 2; M hMAD-2; SMAD family member 2;
<b>Alternative Names</b>	SMAD 2; Smad2; hSMAD2;SMAD3; MADH3; hMAD-3; JV15-2; SMAD family member 3; SMAD 3; Smad3; hSMAD3;smad2/3;smad2+3
<b>Gene ID</b>	4087/4088
<b>SwissProt ID</b>	P84022/Q15796.

## Application

<b>Dilution Ratio</b>	WB: 1:500-1:1000 IHC: 1:50-1:100
<b>Molecular Weight</b>	Calculated MW: 52 kDa; Observed MW: 52,60 kDa

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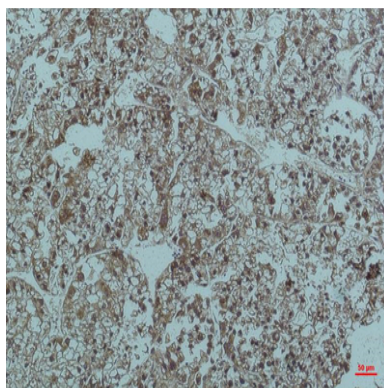
## Background

Members of the Smad family of signal transduction molecules are components of a critical intracellular pathway that transmit TGF- $\beta$  signals from the cell surface into the nucleus. Three distinct classes of Smads have been defined: the receptor-regulated Smads (R-Smads), which include Smad1, 2, 3, 5, and 8; the common-mediator Smad (co-Smad), Smad4; and the antagonistic or inhibitory Smads (I-Smads), Smad6 and 7. Activated type I receptors associate with specific R-Smads and phosphorylate them on a conserved carboxy terminal SSXS motif. The phosphorylated R-Smad dissociates from the receptor and forms a heteromeric complex with the co-Smad (Smad4), allowing translocation of the complex to the nucleus. Once in the nucleus, Smads can target a variety of DNA binding proteins to regulate transcriptional responses.

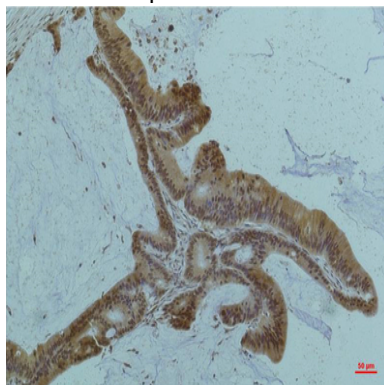
## Research Area

Signal Transduction

## Image Data



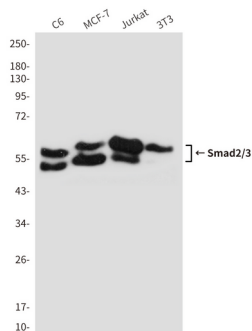
Immunohistochemistry analysis of paraffin-embedded Human Liver tissue using Smad2/3 (6F7) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemical analysis of paraffin-embedded Human tonsils using Smad2/3 (6F7) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

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Western blot analysis of Smad2/3 (6F7) in C6, MCF-7, Jurkat and 3T3 lysates using Smad2/3 (6F7) antibody

### **Note**

For research use only.