

## Recombinant Phospho-Smad2 (Ser250) Monoclonal Antibody

catalog number: **AN300960L**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

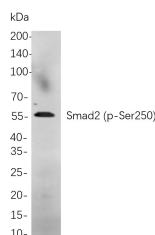
### Description

<b>Reactivity</b>	Human;Mouse;Rat
<b>Immunogen</b>	A synthetic peptide corresponding to residues around (Ser250) of Human Phospho-Smad2
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG, $\kappa$
<b>Clone</b>	5F10
<b>Purification</b>	Protein A
<b>Buffer</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications Recommended Dilution

<b>WB</b>	1:1000-1:5000
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### Data



Western Blot with Recombinant Phospho-Smad2 (Ser250)  
Monoclonal Antibody at dilution of 1:1000 dilution. Lane A:  
A549 treated with TPA for 48 hours cells.

**Observed-MW:58 kDa**

**Calculated-MW:58 kDa**

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	Ice bag

### Background

The protein encoded by this gene belongs to the SMAD, a family of proteins similar 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 signal of the transforming growth factor (TGF)- $\beta$ , and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF- $\beta$  receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF- $\beta$  signal, this protein is phosphorylated by the TGF- $\beta$  receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4.

### For Research Use Only

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