

# Rabbit anti-human SMAD2 Polyclonal Antibody

Catalog Number: R16024P

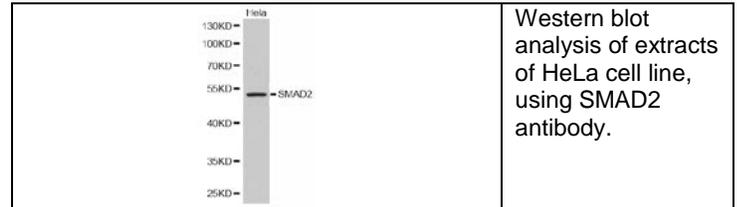
General Information	
<b>Immunogen</b>	Recombinant protein of human SMAD2
<b>IgG type</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Specificity</b>	human SMAD2
<b>Applications &amp; dilution</b>	WB 1:500 - 1:1000 IHC 1:50 - 1:100 IF 1:20 - 1:50 IP 1:20 - 1:50
<b>Formulation</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Purity</b>	≥95% purity by SDS-PAGE
<b>Storage</b>	Store at -20°C. Avoid freeze / thaw cycles.
<b>Abbreviation:</b> ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immunohistochemistry; IF: immunofluorescence. WB: western blot; FC: flowcytometry	

## Preparation

Polyclonal antibody is produced by immunizing rabbit with recombinant protein of human SMAD2 and purified using protein A resin.

## Applications

### Western blot



## 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.

## Storage

This antibody is shipped at 4 °C. This product is stable for 12 months from date of receipt when stored at -20 °C to -70 °C. Avoid freeze/thaw cycles.

## Hazard/Biohazard

This antibody contains 0.02% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.

**For research use only**