# Phospho-Smad1-S465 Rabbit pAb

Catalog No.: AP0268



## **Basic Information**

#### **Observed MW**

55kDa

#### **Calculated MW**

52kDa

#### Category

Primary antibody

## **Applications**

WB

#### **Cross-Reactivity**

Human, Mouse, Rat

# **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 signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed.

## **Recommended Dilutions**

**WB** 

1:500 - 1:2000

## Immunogen Information

Gene ID 4086 Swiss Prot

Q15797

#### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

## **Synonyms**

BSP1; JV41; BSP-1; JV4-1; MADH1; MADR1; Phospho-Smad1-S465

## **Contact**

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## **Product Information**

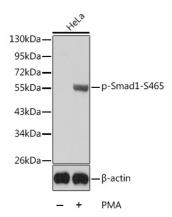
SourceIsotypePurificationRabbitIgGAffinity purification

#### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

# **Validation Data**



Western blot analysis of lysates from HeLa cells using Phospho-Smad1-S465 Rabbit pAb (AP0268). Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins:  $25\mu g$  per lane.

Blocking buffer: 3% BSA.