

# Phospho-Smad3-S423/S425 Rabbit mAb

Catalog No.: AP0727 **Recombinant** **48 Publications**

## Basic Information

### Observed MW

52 kDa

### Calculated MW

48 kDa

### Category

Primary antibody

### Applications

WB, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC0170

## Background

The SMAD family of proteins are a group of intracellular signal transducer proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. The SMAD3 protein functions in the transforming growth factor-beta signaling pathway, and transmits signals from the cell surface to the nucleus, regulating gene activity and cell proliferation. This protein forms a complex with other SMAD proteins and binds DNA, functioning both as a transcription factor and tumor suppressor. Mutations in this gene are associated with aneurysms-osteoarthritis syndrome and Loeys-Dietz Syndrome 3.

## Recommended Dilutions

**WB** 1:1000 - 1:3000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

4088

### Swiss Prot

P84022

### Immunogen

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

### Synonyms

LDS3; mad3; LDS1C; MADH3; JV15-2; hMAD-3; hSMAD3; HSPC193; HsT17436; Phospho-Smad3-S423/S425

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

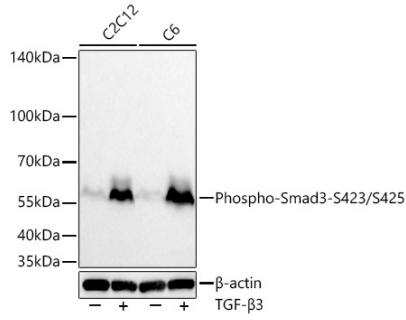
Affinity purification

### Storage

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

Buffer: PBS with 0.09% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of various lysates using Phospho-Smad3-S423/S425 Rabbit mAb (AP0727) at 1:1000 dilution incubated overnight at 4°C. C2C12 cells and C6 cells were treated with TGF- $\beta$  (50 ng/mL) at 37°C for 30 minutes.

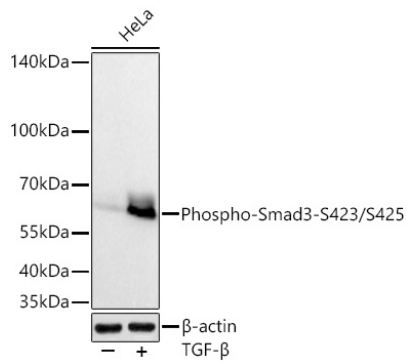
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25  $\mu$ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20 s.



Western blot analysis of lysates from HeLa cells using Phospho-Smad3-S423/S425 Rabbit mAb (AP0727) at 1:1000 dilution incubated overnight at 4°C. HeLa cells were treated with TGF- $\beta$  (50 ng/mL) at 37°C for 30 minutes.

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% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45 s.