

Phospho-Smad3-T179 Rabbit pAb

Catalog No.: AP0554

7 Publications

Basic Information

Observed MW

48kDa

Calculated MW

48kDa

Category

Primary antibody

Applications

WB, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

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 1:500 - 1:2000**IHC-P** 1:50 - 1:200

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-T179

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

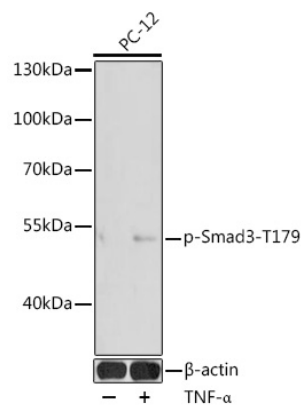
Affinity purification

Storage

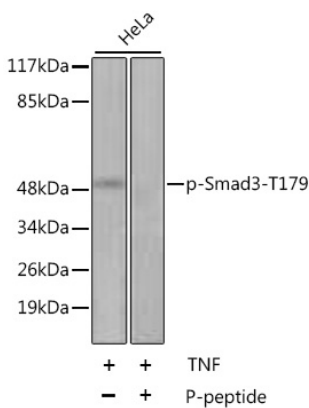
Store at -20°C. Avoid freeze / thaw cycles.

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

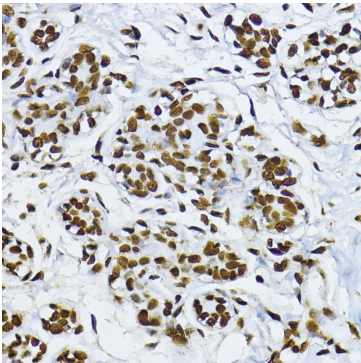
Validation Data



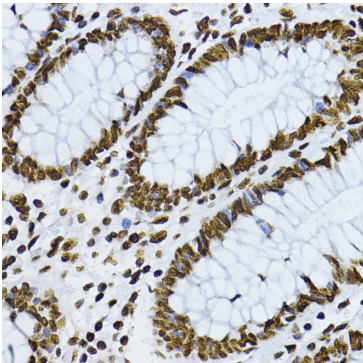
Western blot analysis of lysates from PC-12 cells, using Phospho-Smad2-S465/467/-Smad3-S423/425 pAb (AP0554) at 1:1000 dilution. PC-12 cells were treated with TNF- α (20 ng/mL) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μ g per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



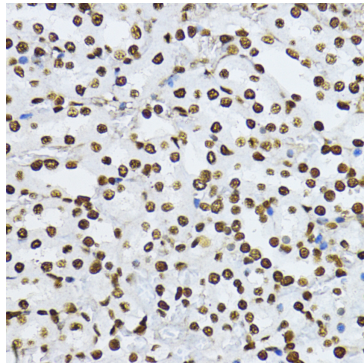
Western blot analysis of lysates from HeLa cells, using Phospho-Smad3-T179 Rabbit pAb (AP0554). HeLa cells were treated with TNF- α (20 ng/mL) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μ g per lane.
Blocking buffer: 3% BSA.



Immunohistochemistry analysis of paraffin-embedded Human breast using Phospho-Smad3-T179 Rabbit pAb (AP0554) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

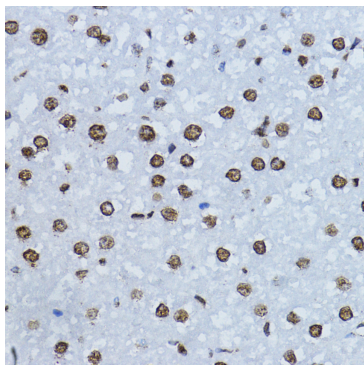


Immunohistochemistry analysis of paraffin-embedded Human colon using Phospho-Smad3-T179 Rabbit pAb (AP0554) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using Phospho-Smad3-T179 Rabbit pAb (AP0554) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Rat liver using Phospho-Smad3-T179 Rabbit pAb (AP0554) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.