Anti-Phospho-Smad3 (Ser425) Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P108615

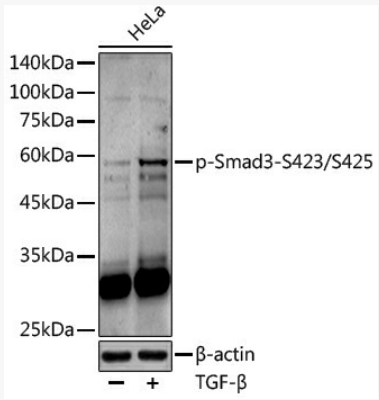
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:1,000; IHC-P 1:50~1:200
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A phospho synthetic peptide corresponding to residues surrounding S423/S425 of Human SMAD3.
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-Smad3 (Ser425) Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

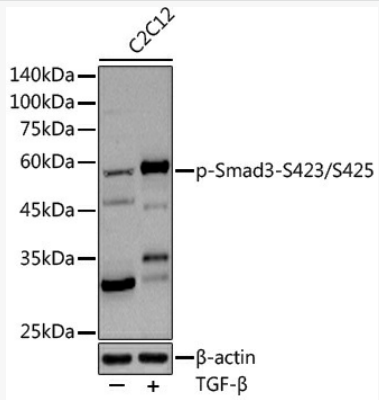
Protein Information

Synonyms	LDS3; mad3; LDS1C; MADH3; JV15-2; hMAD-3; hSMAD3; HSPC193; HsT17436; Phospho-Smad3-S423/S425.
Calculated MW	Calculated MW: 48 kDa; Observed MW: 55 kDa
Uniprot ID	P84022
Gene ID	4088
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.

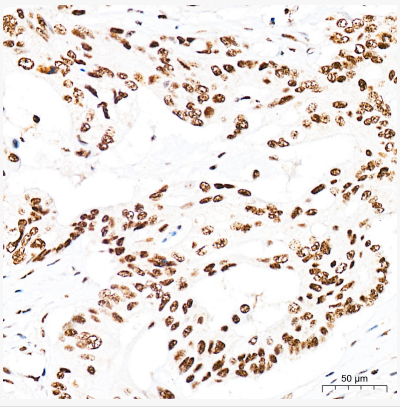
Validation Images



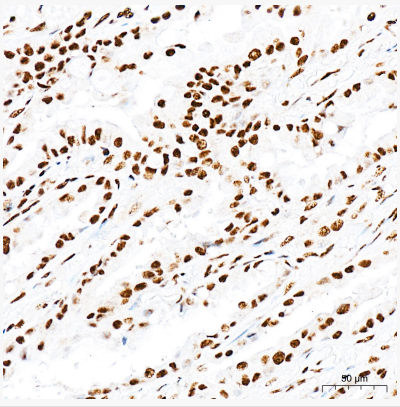
Western blot analysis of various lysates using (P108615) at 1:1,000 dilution. Hela cells were treated by TGF-β (10 ng/ml) at 37°C for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit (SQ201).
Exposure time: 90s.



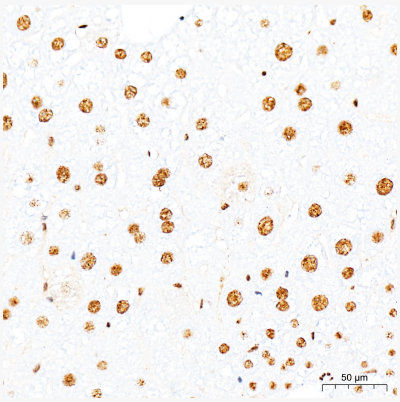
Western blot analysis of various lysates using (P108615) at 1:1,000 dilution. C2C12 cells were treated by TGF-β (10 ng/ml) at 37°C for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit (SQ201).
Exposure time: 180s.



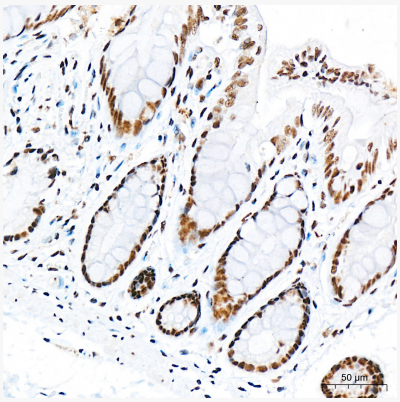
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Phospho-Smad3-S423/S425 Rabbit pAb (P108615) at a dilution of 1:200 (40× lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human lung tissue using Phospho-Smad3-S423/S425 Rabbit pAb (P108615) at a dilution of 1:200 (40× lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Phospho-Smad3-S423/S425 Rabbit pAb (P108615) at a dilution of 1:200 (40× lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Phospho-Smad3-S423/S425 Rabbit pAb (P108615) at a dilution of 1:200 (40× lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.