

## Smad3(Phospho Ser425) Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP14303
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Smad3 around the phosphorylation site of Ser425. AA range:376-425
<b>Mol wt</b>	48081
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	IF, ICC, WB, IHC-p, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Mothers against decapentaplegic homolog 3
<b>Synonyms</b>	Mothers against decapentaplegic homolog 3; SMAD3; MADH3; Mothers against decapentaplegic homolog 3; MAD homolog 3; Mad3; Mothers against DPP homolog 3; hMAD-3; JV15-2; SMAD family member 3; SMAD 3; Smad3; hSMAD3

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### 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 functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis.

### Recommended Dilution

WB: 1: 500 - 1: 2000

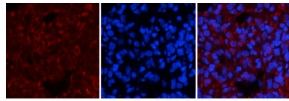
IHC-p: 1: 100 - 1: 300

IF: 1: 50 - 1: 200

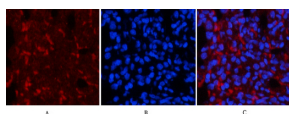
ELISA: 1: 40000

Not yet tested in other applications.

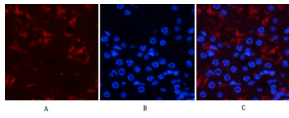
### Images



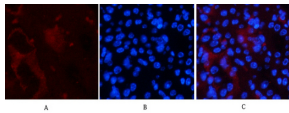
Immunofluorescence analysis of HeLa cell. Smad3 (phospho Ser425) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). ATG5 mouse Monoclonal Antibody(3C7)(Green) was diluted at 1:200(4°C overnight).



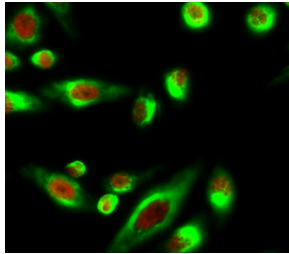
Immunofluorescence analysis of rat-lung tissue. 1,Smad3 (phospho Ser425) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



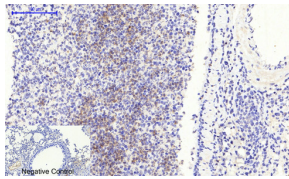
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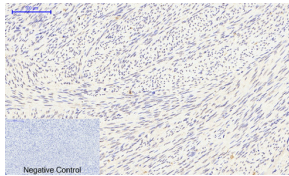
Immunofluorescence analysis of mouse-kidney tissue. 1, Smad3 (phospho Ser425) Polyclonal Antibody (Red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



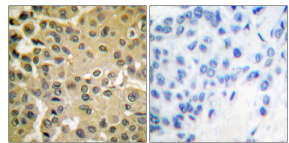
Immunofluorescence analysis of mouse-kidney tissue. 1, Smad3 (phospho Ser425) Polyclonal Antibody (Red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



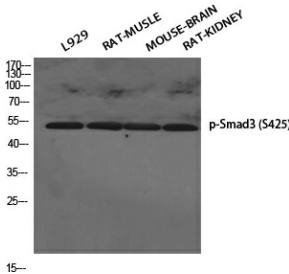
Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1, Smad3 (phospho Ser425) Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



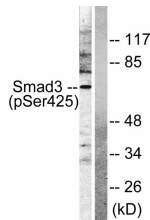
Immunohistochemical analysis of paraffin-embedded Mouse-lung tissue. 1, Smad3 (phospho Ser425) Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



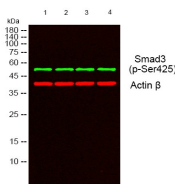
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Smad3 (Phospho-Ser425) Antibody. The picture on the right is blocked with the phospho peptide.



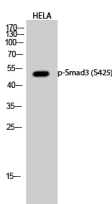
Western Blot analysis of various cells using Phospho-Smad3 (S425) Polyclonal Antibody diluted at 1:500



Western Blot analysis of HELA cells using Phospho-Smad3 (S425) Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from NIH/3T3 cells treated with IGF-I 100ng/ml 10', using Smad3 (Phospho-Ser425) Antibody. The lane on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 1) L929, 2) RAT MUSCLE, 3) MOUSE-BRAIN, 4) RAT-KIDNEY cells, (Green) primary antibody was diluted at 1:1000, 4°C overnight, secondary antibody was diluted at 1:10000, 37°C 1hour. (Red) Actin β Monoclonal Antibody (5B7) was diluted at 1:5000 as loading control, 4°C overnight, secondary antibody was diluted at 1:10000, 37°C 1hour.

## Storage

-20°C for 1 year

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