

## Smad3 (phospho-S425) polyclonal antibody

Catalog: BS4173

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

Smad proteins, the mammalian homologs of the Drosophila mothers against decapentaplegic (Mad), have been implicated as downstream effectors of  $\text{GF}\beta$ /BMP signaling. Smad1 (also designated Madr1 or JV4-1) and Smad5 are effectors of BMP-2 and BMP-4 function, while Smad2 (also designated Madr2 or JV18-1) and Smad3 are involved in  $\text{TGF}\beta$  and activin-mediated growth modulation. Smad4 (also designated DPC4) has been shown to mediate all of the above activities through interaction with various Smad family members. Smad6 and Smad7 regulate the response to activin/ $\text{TGF}\beta$  signaling by interfering with  $\text{TGF}\beta$ -mediated phosphorylation of other Smad proteins.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 56 kDa

### Swiss-Prot:

P84022

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

### Storage&Stability:

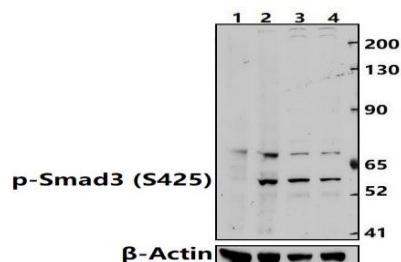
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

p-Smad3 (S425) polyclonal antibody detects endogenous

levels of Smad3 protein only when phosphorylated at Ser425.

### DATA:



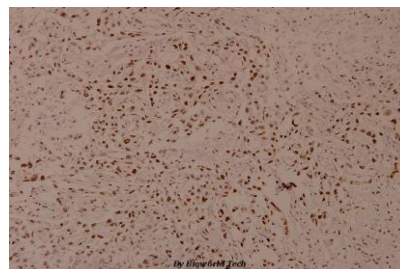
Western blot (WB) analysis of Smad3 (phospho-Ser425) polyclonal antibody at 1:500 dilution

Lane1:A549 treated with  $\lambda$ -phosphatase whole cell lysate(30ug)

Lane2:A549 whole cell lysate(30ug)

Lane3:A549 treated with  $\text{TGF-}\beta$ (10 ng/ml,30 minutes) whole cell lysate(30ug)

Lane4:A549 whole cell lysate(30ug)



Immunohistochemistry (IHC) analyzes of p-Smad3 (S425) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

### Note:

For research use only, not for use in diagnostic procedure.

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