

Smad3 (phospho-S204) polyclonal antibody

Catalog: BS4874

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:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

Molecular Weight:

~ 48, 55 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

ICC: 1:50~1:200

IP: 1:50~1:200

Storage&Stability:

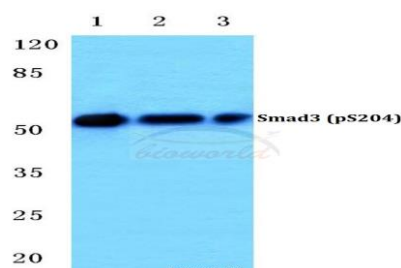
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

p-Smad3 (S204) polyclonal antibody detects endogenous levels of Smad3 protein only when phosphorylated at

Ser204.

DATA:

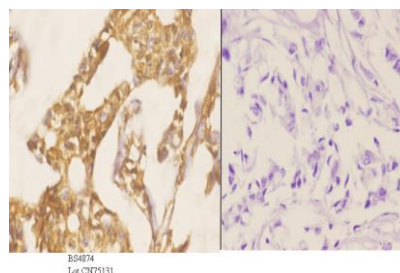


Western blot (WB) analysis of p-Smad3 (S204) polyclonal antibody at 1:500 dilution

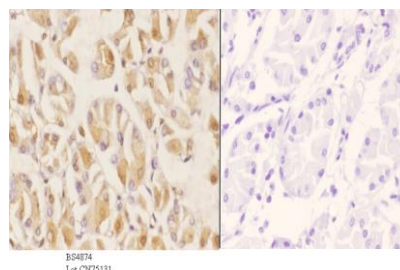
Lane1:Hela cell lysate treated with UV(4h)

Lane2:sp2/0 cell lysate treated with UV(4h)

Lane3:H9C2 cell lysate treated with UV(4h)



Immunohistochemistry (IHC) analyzes of p-Smad3 (S204) pAb in paraffin-embedded human breast carcinoma tissue at 1:50. showing cytoplasmic and nucleus staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



Immunohistochemistry (IHC) analyzes of p-Smad3 (S204) pAb in paraffin-embedded human stomach carcinoma tissue at 1:50. showing cytoplasmic and nucleus staining. Negative control (the right) Using PBS

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PRODUCT DATA SHEET

Bioworld Technology, Inc.

instead of primary antibody, secondary antibody is Goat Anti-Rabbit
IgG-biotin followed by avidin-peroxidase.

Note:

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

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