

## Smad1/5/9 (Q22) polyclonal antibody

Catalog: BS2486

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Smad proteins, the mammalian homologs of the Drosophila Mothers against dpp (Mad) have been implicated as downstream effectors of TGF $\beta$ /BMP signaling. Smad1 (also designated Madr1 or JV4-1), Smad5 and mammalian Smad8 (also designated Smad9 or MadH6) are effectors of BMP2 and BMP4 function while Smad2 (also designated Madr2 or JV18-1) and Smad3 are involved in 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/TGF $\beta$  signaling by interfering with TGF $\beta$ -mediated phosphorylation of other Smad family members.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 60 kDa

### Swiss-Prot:

Q15797/Q99717/O15198

### 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:

IHC: 1:50~1:200

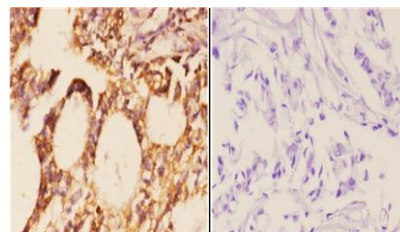
### Storage&Stability:

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

### Specificity:

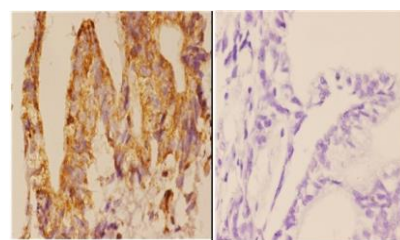
Smad1/5/9 (Q22) polyclonal antibody detects endogenous levels of Smad1/5/9 protein.

### DATA:



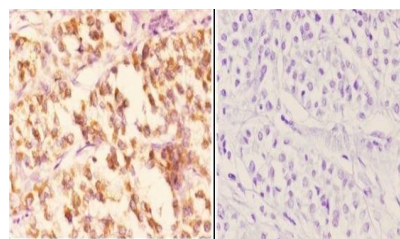
BS2486  
Lot: CF36131

Immunohistochemistry (IHC) analyzes of Smad1/5/9 (Q22) pAb in paraffin-embedded human breast carcinoma tissue at 1:50, showing cytoplasmic and nuclear staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



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Immunohistochemistry (IHC) analyzes of Smad1/5/9 (Q22) pAb in paraffin-embedded human colon carcinoma tissue at 1:50, showing cytoplasmic and nuclear staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



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Lot: CF36131

Immunohistochemistry (IHC) analyzes of Smad1/5/9 (Q22) pAb in paraffin-embedded human liver carcinoma tissue at 1:50, showing cytoplasmic and nuclear staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit

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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

IgG-biotin followed by avidin-peroxidase.

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

Note:

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