

## SMIF (S133) polyclonal antibody

Catalog: BS2145

Host: Rabbit

Reactivity: Human, Mouse

### BackGround:

Signal transduction of TGF- $\beta$  superfamily members is regulated by Smad proteins. In particular, Smads influence specific gene transcription by relaying signals from the cell membrane to the nucleus. Smad4 plays an essential role in TGF- $\beta$ -induced transcriptional activation wherein phosphorylated receptor-associated Smads associate with Smad4. Furthermore, SMIF (Smad4-interacting protein) and Smad4 complex with TGF- $\beta$  and BMP4. An increase in Smad4 concentration increases the translocation of this complex to the nucleus. SMIF and Smad4 interact directly through a EVH1/WH1 domain on SMIF and a proline-rich activation domain on Smad4. Smad4 is essential to nuclear translocation of SMIF as deletion of the Smad4-interacting domain (located in the N-terminal 100 amino acids) of SMIF eliminates TGF- $\beta$ -induced nuclear translocation of SMIF (1). The human SMIF gene is ubiquitously expressed and encodes a protein with a relative molecular mass of 70 kDa.

### Product:

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

### Molecular Weight:

~ 75 kDa

### Swiss-Prot:

Q9NPI6

### 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

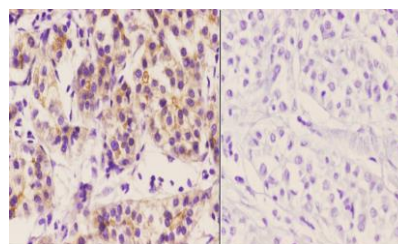
### Storage&Stability:

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

### Specificity:

SMIF (S133) polyclonal antibody detects endogenous levels of SMIF protein.

### DATA:



BS2145  
Lot CA36131

Immunohistochemistry (IHC) analyzes of SMIF (S133) pAb in paraffin-embedded human liver 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.

### Note:

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

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