For Research Use Only

# SMAD3 Polyclonal antibody

Catalog Number:51145-1-AP 12 Publications

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## Basic Information

Catalog Number:
51145-1-AP

Size:
150ul , Concentration: 240 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC050743

GeneID (NCBI):
4088

UNIPROT ID:
P84022

Full Name:
SMAD family member 3

Calculated MW:
48 kDa

Purification Method:
Antigen affinity purification

## Applications

Tested Applications:
ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human, mouse, rat

## Background Information

SMAD family member 3 (SMAD3), also named Mothers against decapentaplegic homolog 3. Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD3/SMAD4 complex, activates transcription. Also can form a SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to regulate TGF-beta-mediated transcription. Has an inhibitory effect on wound healing probably by modulating both growth and migration of primary keratinocytes and by altering the TGF-mediated chemotaxis of monocytes. This effect on wound healing appears to be hormone-sensitive. Regulator of chondrogenesis and osteogenesis and inhibits early healing of bone fractures (By similarity). Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.The observed molecular weight of SMAD3 is about 48 kDa.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Xiaomeng Zou | 36411770 | Biomed Res Int | WB |
| Fangmin Zhou | 35968503 | Dis Markers | WB |
| Bin-Bin Zhang | 39929325 | Exp Gerontol | WB |

## Storage

Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
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## Selected Validation Data