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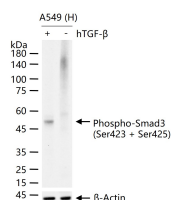
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**SMAD3 (p-S423/S425) Recombinant Rabbit mAb****— DATASHEET —**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------|
| <b>Host:</b> Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Isotype:</b> IgG  | <b>Applications:</b> WB (1:500-2000)            |
| <b>Clonality:</b> Recombinant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>CloneNo.:</b> 5C5 | <b>Reactivity:</b> Human (predicted: Mouse)     |
| <b>GeneID:</b> 4088                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>SWISS:</b> P84022 |                                                 |
| <b>Target:</b> SMAD3 (p-S423/S425)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |                                                 |
| <b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human Smad3 around the phosphorylation site of Ser423/425: CS(p-S)V(p-S).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      | <b>Predicted MW.:</b> 47 kDa                    |
| <b>Purification:</b> affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | <b>Observed MW.:</b> 52 kDa                     |
| <b>Concentration:</b> 1mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      | <b>Subcellular Location:</b> Cytoplasm ,Nucleus |
| <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |                                                 |
| <b>Background:</b> Smad3 is a 50 kDa member of a family of proteins that act as key mediators of TGF beta superfamily signaling in cell proliferation, differentiation and development. The Smad family is divided into three subclasses: receptor regulated Smads, activin/TGF beta receptor regulated (Smad2 and 3) or BMP receptor regulated (Smad 1, 5, and 8); the common partner, (Smad4) that functions via its interaction to the various Smads; and the inhibitory Smads, (Smad6 and 7). Activated Smad3 oligomerizes with Smad4 upon TGF beta stimulation and translocates as a complex into the nucleus, allowing its binding to DNA and transcription factors. Phosphorylation of the two TGF beta dependent serines 423 and 425 in the C terminus of Smad3 is critical for Smad3 transcriptional activity and TGF beta signaling. |                      |                                                 |

**— VALIDATION IMAGES —**

A549 (H) cells were treated with or without hTGF-β (10 ng/ml) for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with Phospho-Smad3 (Ser423 + Ser425) monoclonal antibody, unconjugated (bsm-52205R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

**— SELECTED CITATIONS —**

- **[IF=8.5]** Yulong Hu. et al. Structural characterization of an active polysaccharide from Gardenia jasminoide and its anti-pulmonary fibrosis effect associated with TGF-β1/Smad3 signaling pathway. INT J BIOL MACROMOL. 2025 Nov;330:148272 WB ;Human. 41086895
- **[IF=5.1]** Yu Xia. et al. SIRT1 activation ameliorates rhesus monkey liver fibrosis by inhibiting the TGF-β/smud signaling pathway. CHEM-BIOL INTERACT. 2024 Mar;:110979 IHC ;Monkey. 38555046
- **[IF=3.913]** Xiaoliang Zhou. et al. Ursolic acid inhibits human dermal fibroblasts hyperproliferation, migration, and

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collagen deposition induced by TGF- $\beta$  via regulating the Smad2/3 pathway. GENE. 2023 May;867:147367 WB ;Human.  
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