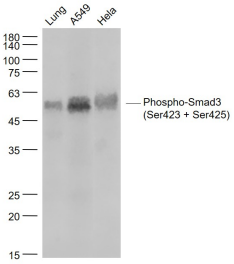
www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

Phospho-Smad3 (Ser423 + Ser425) Recombinant Rabbit mAb

Catalog Number:	bsm-52205R
Target Protein:	Phospho-Smad3 (Ser423 + Ser425)
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Recombinant
Clone No.:	5C5
Isotype:	IgG
Applications:	WB (1:500-1000), IHC-P (1:100-500), IHC-F (1:20-200), IF (1:20-200)
Reactivity:	Human, Mouse (predicted:Rat, Pig)
Predicted MW:	47 kDa
Entrez Gene:	4088
Swiss Prot:	P84022
Source:	KLH conjugated Synthesised phosphopeptide derived from human Smad3 around the phosphorylation site of Ser423/425: CS(p-S)V(p-S).
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	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



Sample: Lung (Mouse) Lysate at 40 ug A549(Human) Cell Lysate at 30 ug Hela(Human) Cell Lysate at 30 ug Primary: Anti- Phospho-Smad3 (Ser423 + Ser425) (bsm-52205R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 55 kD

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.1] Yu Xia. et al. SIRT1 activation ameliorates rhesus monkey liver fibrosis by inhibiting the TGF-β/smad 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 collagen deposition induced by TGF-β via regulating the Smad2/3 pathway. GENE. 2023 May;867:147367 WB ; Human . 36931410