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phospho-Smad3 (Ser423) Rabbit pAb

Catalog Number: bs-2225R

Target Protein: phospho-Smad3 (Ser423)

Concentration: 1mg/ml

Form: Liquid
Host: Rabbit
Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), Flow-Cyt (3µg/Test), ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted:Pig)

Entrez Gene: 4088 Swiss Prot: P84022

Source: KLH conjugated Synthesised phosphopeptide derived from human Smad3 around the

phosphorylation site of Ser423: CS(p-S)VS.

Purification: affinity purified by Protein A

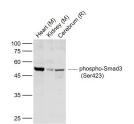
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

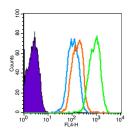
Background: Smad3 is a 50 kDa member of a family of proteins that act as key mediators of TGF beta

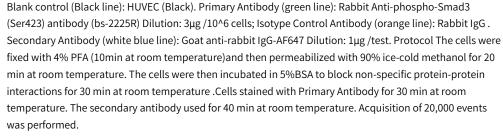
superfamily signaling in cell proliferation, differentiation and development. The Smad family is divided into three subclasses: receptor regulated Smads, activin/TGF beta receptor regulated (Smad2 and 3) or BMP receptor regulated (Smad 1, 5, and 8); the common partner, (Smad4) that functions via its 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.

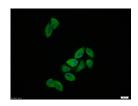
VALIDATION IMAGES



Sample: Lane 1: Heart (Mouse) Lysate at 40 ug Lane 2: Kidney (Mouse) Lysate at 40 ug Lane 3: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-phospho-Smad3 (Ser423) (bs-2225R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD







Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-Smad3 (Ser423)) polyclonal Antibody, Unconjugated (bs-2225R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.714] Han B et al. Deltamethrin induces liver fibrosis in quails via activation of the TGF-β1/Smad signaling pathway. Environ Pollut. 2019 Dec 23;259:113870. WB; quail . 31918140

[IF=5.589] Lv Y et al. Imidacloprid-induced liver fibrosis in quails via activation of the TGF-β1/Smad pathway. Sci Total Environ. 2019 Dec 6;705:135915. WB; Quail . 31835194

[IF=4.784] Zheng Wu. et al. FOXD3 suppresses epithelial–mesenchymal transition through direct transcriptional promotion of SMAD7 in esophageal squamous cell carcinoma. 2021 Sep 22 WB; human . 34551139