Performance guarenteed

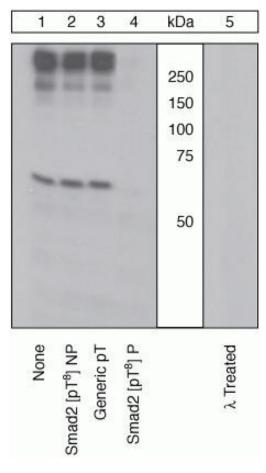


Product Details

Size	100 μL	
Species Reactivity	Human, Mouse, Rat	
Host/Isotype	Rabbit / IgG	
Class	Polyclonal	
Туре	Antibody	
Conjugate	Unconjugated	
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from a region of human Smad2 that contains threonine 8. The sequence is conserved in mouse and rat.	
Form	Liquid	
Storage conditions	-20°C	
RRID	AB_2533613	

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
ChIP assay (ChIP)	10 µL	-

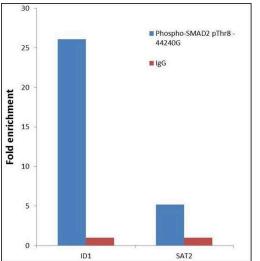
Product Images For Phospho-SMAD2 (Thr8) Polyclonal Antibody



Phospho-SMAD2 (Thr8) Antibody (44-240G) in WB

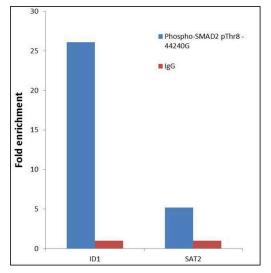
Peptide Competition and Phosphatase Treatment. Lysates prepared from HepG2 cells stimulated with TGFbeta were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were either left untreated (1-4) or treated with lambda phosphatase (5), blocked with a 5% BSA-TBST buffer overnight at 4°C, and incubated with 0.35 µg/mL Smad2 (pT8) antibody for two hours at room temperature in a 3% BSA-TBST buffer, following prior incubation with: no peptide (1, 5), the non-phosphopeptide corresponding to the immunogen (2), a generic phosphothreonine containing peptide (3), or, the phosphopeptide immunogen (4). After washing, membranes were incubated with goat F (ab')2 anti-rabbit IgG HRP-conjugate (Product # ALI4404) and bands were detected using the Pierce SuperSignal[™] method. The data show that the peptide corresponding to Smad2 (pT8) blocks the antibody signal, thereby demonstrating the specificity of the antibody. The data also show that phosphatase stripping eliminates the signal, verifying that the antibody is phospho-specific.

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Phospho-SMAD2 (Thr8) Antibody (44-240G)

Antibody specificity was demonstrated by detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using Phospho-SMAD2 (Thr8) Polyclonal Antibody (Product # 44-240G) with relevant positive (ID1)and negative (SAT2) sites. {RE}



Phospho-SMAD2 (Thr8) Antibody (44-240G) in ChIP

ChIP- qPCR analysis of SMAD2 pThr8 was performed with 10 µL of the Phospho-SMAD2 pThr8 Rabbit polyclonal antibody (Product # 44-240G) on sheared chromatin from 2 million Jurkat cells treated with 50 ng/mL of TGF-beta for one hour using the MAGnifyTM Chromatin Immunoprecipitation System (Product # 49-2024). Normal Rabbit IgG was used as a negative IP control. The purified DNA from each ChIP sample was analyzed by StepOnePlusTM Real-Time PCR System (Product # 4376600) with primers for the promoter of active ID1 used as positive control target and the SAT2 used as negative control target. Data is presented as fold enrichment of the antibody signal versus the negative control IgG using the comparative CT method.

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