

SMAD7 Polyclonal Antibody

Catalog NumberPA5-25912

Product data sheet

Details		Species Reactivity	
Size	400 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:50
Type	Antibody	Western Blot (WB)	1:1,000
Immunogen	KLH conjugated synthetic peptide between 195-224 amino acids from the central region of human Smad7	Immunocytochemistry (ICC/IF)	1:10-1:50
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Purification	Size-exclusion - Dialysis, Ammonium sulfate precipitation		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with rat based on sequence homology.

Background/Target Information

SMADs are members of the MAD-related family of molecules. MAD-related proteins are a family of intracellular proteins that are essential components in the signaling pathways of the serine/threonine kinase receptors of the transforming growth factor beta superfamily. SMADs can be divided into receptor-regulated SMADs (R-SMADs: SMAD1, SMAD2, SMAD5, SMAD8 and SMAD9), common-mediator SMAD (co-SMAD: SMAD4), and inhibitory SMADs (I-SMADs: SMAD6 and SMAD7). SMAD1, SMAD5, SMAD8 and SMAD9 have high degrees of homology and antibodies are available that recognize sequences common to all of them. SMAD8 and SMAD9 are typically used as alternate names for one another in the literature.

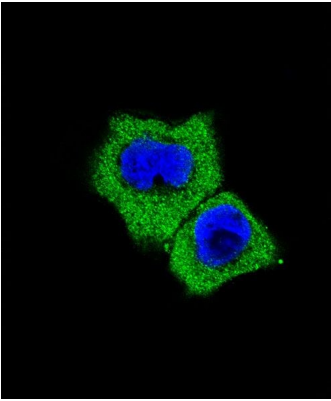
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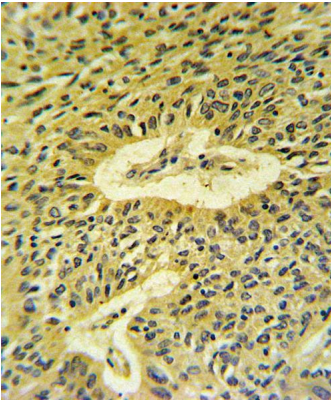
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Product Images For SMAD7 Polyclonal Antibody



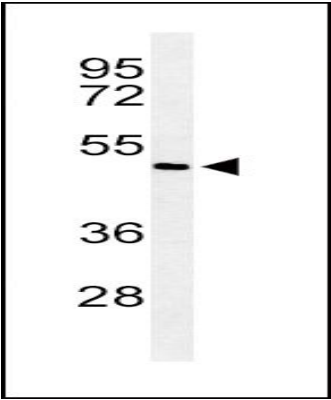
**SMAD7 Antibody (PA5-25912) in ICC/IF**

Immunofluorescent analysis of A431 cells using a Smad7 polyclonal antibody (Product # PA5-25912). A431 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with a Smad7 polyclonal antibody (Product # PA5-25912) (1:25, 1 hr at 37°C). Primary antibody detected with fluor-conjugated donkey anti-rabbit secondary antibody (green) (1:400, 50 min at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/mL, 10 min).



**SMAD7 Antibody (PA5-25912) in IHC (P)**

Immunohistochemistry analysis in formalin-fixed, paraffin-embedded lung carcinoma using a Smad7 polyclonal antibody (Product # PA5-25912), followed by HRP-conjugated secondary antibody and DAB staining.



**SMAD7 Antibody (PA5-25912) in WB**

Western blot analysis using a Smad7 polyclonal antibody (Product # PA5-25912) in ZR-75-1 cell lysates (35 µg per lane).

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