Product **Datasheet**

Anti-SMAD3 Rabbit pAb

WL02288

For Research Use Only.Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-SMAD3 Rabbit pAb	
Source	Rabbit	
Species reactivity	Human, Mouse, Rat	
Tested applications	WB	1:500
	IHC	1:200
	IF	1:300
Cellular localization	Secreted and Cell membrane	
Pack size	50/100/200/500/1000µl	
Storage	Store at -20°C. Avoid freeze/thaw cycles.	
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide	

General Information

Background

Members of the Smad family of signal transduction molecules are components of a critical intracellular pathway that transmit TGF-β signals from the cell surface into the nucleus. Smad1 and Smad5 are effectors of BMP-2 and BMP-4 function, while Smad2 and Smad3 are involved in TGF-β and Activin-mediated growth modulation. Smad4 has been shown to mediate all of the above activities through interaction with various Smad family members. The phosphorylated receptor-regulated Smad issociates from the receptor and forms a heteromeric complex with the co-Smad (Smad4), allowing translocation of the complex to the nucleus. Once in the nucleus, Smads can target a variety of DNA binding proteins to regulate transcriptional responses.

Immunogen

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of SMAD3.

Purification

Polyclonal antibody was purified by Protein A affinity chromatography.

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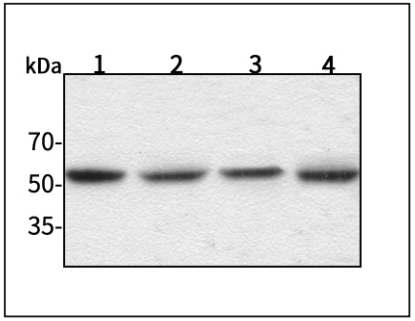
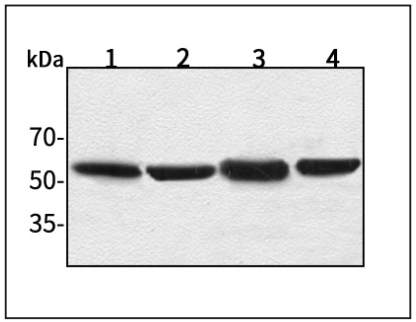
Product Images



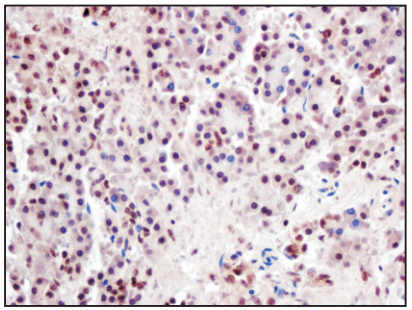
Western blot-Anti-SMAD3 pAb

Lane 1: Human BGC-823 cell lysate
Lane 2: Human MGC-803 cell lysate
Lane 3: Human SGC-7901 cell lysate
Lane 4: Human MCF-7 cell lysate
All lanes: Anti-SMAD3 at 1:500 dilution
Lysates/proteins at 20-50 µg per lane.
Predicted band size: 48 kDa
Observed band size: 54 kDa



Western blot-Anti-SMAD3 pAb

Lane 1: Mouse brain tissue lysate
Lane 2: Mouse heart tissue lysate
Lane 3: Rat kidney tissue lysate
Lane 4: Rat liver tissue lysate
All lanes: Anti-SMAD3 at 1:500 dilution
Lysates/proteins at 20-50 µg per lane.
Predicted band size: 48 kDa
Observed band size: 54 kDa



Immunohistochemistry-Anti-SMAD3 pAb

Immunohistochemical analysis of paraffin-embedded human pancreatic cancer using anti-SMAD3 Rabbit Antibody at 1:100 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

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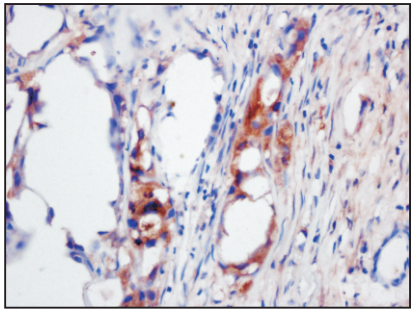
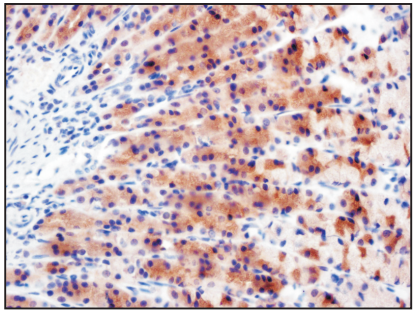


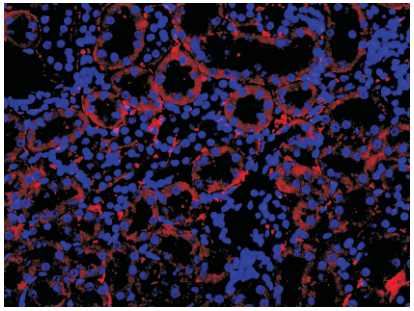
Immunohistochemistry-Anti-SMAD3 pAb

Immunohistochemical analysis of paraffin-embedded human breast cancer using anti-SMAD3 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunohistochemistry-Anti-SMAD3 pAb

Immunohistochemical analysis of paraffin-embedded rat kidney using anti-SMAD3 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunofluorescence-Anti-SMAD3 pAb

Immunofluorescence analysis of paraffin-embedded mouse kidney using anti-SMAD3 Rabbit Antibody at 1:300 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0