

Polyclonal Anti-Smad3 Picoband™ Antibody

Catalog Number: PB9396

Description

Gene Name	SMAD family member 3
Recommended Protein Name	Mothers against decapentaplegic homolog 3
Lot No.	0931512Da859647
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: human
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Smad3 (193-222aa DHQMNHSMDAGSPNLSNPMSPAHNNLDLQ), identical to the related mouse and rat sequences.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu	-

WB: The detection limit for Smad3 is approximately 0.1ng/lane under reducing conditions.

Tested Species: In-house tested species with positive results.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

Background

Mothers against decapentaplegic homolog 3 also known as SMAD family member 3 or SMAD3 is a protein that in humans is encoded by the SMAD3 gene. SMAD3 is a member of the SMAD family of proteins. It is located in 15q22.33. And it mediates the signals from the transforming growth factor beta (TGF- β) super family ligands that regulate cell proliferation, differentiation and death. Based on its essential role in TGF beta signaling pathway, SMAD3 has been related with tumor growth in cancer development.

Reference

1. "Entrez Gene: SMAD3 SMAD family member 3".
2. Moustakas A, Souchelnytskyi S, Heldin CH (2001). "Smad regulation in TGF-beta signal transduction". J. Cell. Sci. 114 (Pt 24): 4359–69.
3. Zhang Y, Feng X, We R, Derynck R (September 1996). "Receptor-associated Mad homologues synergize as effectors of the TGF-beta response". Nature 383 (6596): 168–72.