



Product Information Sheet

Polyclonal Anti- Smad 1,2,3,5

Catalogue No. PA1331

Lot No. 013101223164

Ig type rabbit IgG

Size 100µg/vial

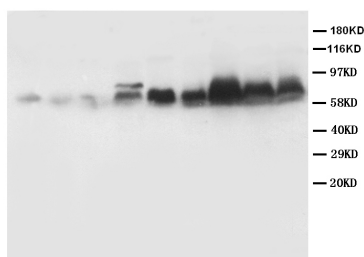
Specificity

Human, rat.

No cross reactivity with other proteins.

Recommended application

Western blot



Lane 1 : Rat Heart tissue Lysate
Lane 2 : Rat skeletal muscle tissue Lysate
Lane 3 : Rat Kidney tissue Lysate
Lane 4 : Rat brain tissue Lysate
Lane 5 : MM453 Whole Cell Lysate
Lane 6 : MM231 Whole Cell Lysate
Lane 7 : HeLa Whole Cell Lysate
Lane 8 : SMMC Whole Cell Lysate
Lane 9 : SW620 Whole Cell Lysate

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human Smad 1,2,3,5 (442-456aa), identical to the related rat sequence.

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

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 longer time.

To reorder contact us at:

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BACKGROUND

SMADs are proteins that modulate the activity of transforming growth factor beta ligands. The SMADs, often in complex with other SMADs/CoSMAD, act as transcription factors that regulate the expression of certain genes. Zhu, H et al concluded that targeted ubiquitination of SMADs may serve to control both embryonic development and a wide variety of cellular responses to TGF-beta signals. R-Smads or receptor regulated Smads are a class of proteins that include SMAD1, SMAD2, SMAD3, SMAD5, and SMAD8. In response to signals by the TGF- β superfamily of ligands these proteins associate with receptor kinases and are phosphorylated at an SSXS motif at their extreme C-terminus. These proteins then typically bind to the common mediator Smad or co-SMAD SMAD4.

REFERENCE

1. Zhu, H., Kavsak, P., Abdollah, S., Wrana, J. L., Thomsen, G. H. A SMAD ubiquitin ligase targets the BMP pathway and affects embryonic pattern formation. Nature 400: 687-693, 1999.