

## Phospho-Smad2(S255) Rabbit mAb

Catalog No: #13429



Package Size: #13429-1 50ul #13429-2 100ul

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## Description

Product Name	Phospho-Smad2(S255) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	JF0882
Purification	ProA affinity purified
Applications	WB, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser255 of human Smad2.
Other Names	Drosophila, homolog of, MADR2 antibody hMAD-2 antibody HsMAD2 antibody JV18 antibody JV18-1 antibody JV181 antibody MAD antibody MAD homolog 2 antibody MAD Related Protein 2 antibody Mad-related protein 2 antibody MADH2 antibody MADR2 antibody MGC22139 antibody MGC34440 antibody Mother against DPP homolog 2 antibody Mothers against decapentaplegic homolog 2 antibody Mothers against decapentaplegic, Drosophila, homolog of, 2 antibody Mothers against DPP homolog 2 antibody OTTHUMP00000163489 antibody Sma and Mad related protein 2 antibody Sma- and Mad-related protein 2 MAD antibody SMAD 2 antibody SMAD family member 2 antibody SMAD, mothers against DPP homolog 2 antibody SMAD2 antibody SMAD2_HUMAN antibody
Accession No.	Swiss-Prot#:Q15796
Calculated MW	52 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

## Application Details

WB: 1:1,000

IHC: 1:50-1:200

## Background

Smad proteins, the mammalian homologs of the *Drosophila* mothers against decapentaplegic (Mad), have been implicated as downstream effectors of TGF $\beta$ /BMP signaling. Smad1 (also designated Madr1 or JV4-1) and Smad5 are effectors of BMP-2 and BMP-4 function, while Smad2 (also designated Madr2 or JV18-1) and Smad3 are involved in TGF $\beta$  and Activin-mediated growth modulation. Smad4 (also designated DPC4) has been shown to mediate all of the above activities through interaction with various Smad family members. Smad6 and Smad7 regulate the response to Activin/TGF $\beta$  signaling by interfering with TGF $\beta$ -mediated phosphorylation of other Smad proteins.

## References

1. Ungefroren H et al. Rac1b negatively regulates TGF- $\beta$ 1-induced cell motility in pancreatic ductal epithelial cells by suppressing Smad signalling. *Oncotarget* 5:277-90 (2014).
2. Harazono Y et al. miR-655 Is an EMT-suppressive MicroRNA targeting ZEB1 and TGFBR2. *PLoS One* 8:e62757 (2013).

## Published Papers

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el et al., Gastrodin attenuates renal injury and collagen deposition via suppression of the TGF- $\beta$ 1/Smad2/3 signaling pathway based on network pharmacology analysis InFront PharmacolOn2023 Jan 17byYing Wen , Xiuli Zhang et al..PMID:36733505, , (2023)

[PMID:36733505](#)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.