

## Smad2/3 (phospho Thr8) rabbit pAb

## Cat No.:ES1434

For research use only

## Overview

Product Name	Smad2/3 (phospho Thr8) rabbit pAb
Host species	Rabbit
Applications	WB; IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	WB 1:500-2000; IF/ICC 1:100-500;ELISA
	1:5000-20000
Immunogen	The antiserum was produced against synthesized
	peptide derived from human Smad2/3 around the
	phosphorylation site of Thr8. AA range:1-50
Specificity	Phospho-Smad2/3 (T8) Polyclonal Antibody detects
. ,	endogenous levels of Smad2/3 protein only when
	phosphorylated at T8.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20 $^\circ\!\mathrm{C}$ . Avoid repeated freeze-thaw cycles.
Protein Name	Mothers against decapentaplegic homolog 2/3
Gene Name	SMAD2/SMAD3
Cellular localization	Cytoplasm . Nucleus . Cytoplasmic and nuclear in the
	absence of TGF-beta. On TGF-beta stimulation,
	migrates to the nucleus when complexed with
	SMAD4 (PubMed:9865696, PubMed:21145499). On
	dephosphorylation by phosphatase PPM1A,
	released from the SMAD2/SMAD4 complex, and
	exported out of the nucleus by interaction with
	RANBP1 (PubMed:16751101, PubMed:19289081).
	Localized mainly to the nucleus in the early stages of
	embryo development with expression becoming
	evident in the cytoplasm at the blastocyst and
	epiblast stages (By similarity)
Purification	The antibody was affinity-purified from rabbit
	antiserum by affinity-chromatography using
	epitope-specific immunogen.
Clonality	Polyclonal



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**Concentration** Observed band Human Gene ID Human Swiss-Prot Number Alternative Names

Background

1 mg/ml 48kD 4087/4088 Q15796/P84022 SMAD2; MADH2; MADR2; Mothers against decapentaplegic homolog 2; MAD homolog 2; Mothers against DPP homolog 2; JV18-1; Mad-related protein 2; hMAD-2; SMAD family member 2; SMAD 2; Smad2; hSMAD2; SMAD3; MADH3; Mothers against decapentaplegic The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4. The association with SMAD4 is important for the translocation



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