

Smad3 rabbit pAb

Cat No.:ES3463

For research use only

Overview

Product Name	Smad3 rabbit pAb
Host species	Rabbit
Applications	IF;WB;IHC;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	IF: 1:50-200 Western Blot: 1/500 - 1/2000.
	Immunohistochemistry: 1/100 - 1/300. ELISA:
	1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized
-	peptide derived from human Smad3. AA
	range:145-194
Specificity	Smad3 Polyclonal Antibody detects endogenous
	levels of Smad3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20 $^\circ\!{ m C}$. Avoid repeated freeze-thaw cycles.
Protein Name	Mothers against decapentaplegic homolog 3
Gene Name	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:15799969, PubMed:21145499).
	Through the action of the phosphatase PPM1A,
	released from the SMAD2/SMAD4 complex, and
	exported out of the nucleus by interaction with
	RANBP1 (PubMed:16751101, PubMed:19289081).
	Co-localizes with LEMD3 at the nucleus inner
	membrane (PubMed:15601644). MAPK-mediated
	phosphorylation appears to have no effect on
	nuclear import (PubMed:19218245). PDPK1
	prevents its nuclear translocation in response to
	TGF-beta (PubMed:17327236). Localized mainly to
	the nucleus in the early stages of embryo
	development with expression becoming evident in



+86-27-59760950

ELKbio@ELKbiotech.com

www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road, Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C



	the cytoplasm of the inner cell mass at the
	blastocyst stage (By similarity)
Purification	The antibody was affinity-purified from rabbit
	antiserum by affinity-chromatography using
	epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	50kD
Human Gene ID	4088
Human Swiss-Prot Number	P84022
Alternative Names	SMAD3; MADH3; Mothers against decapentaplegic
	homolog 3; MAD homolog 3; Mad3; Mothers against
	DPP homolog 3; hMAD-3; JV15-2; SMAD family
	member 3; SMAD 3; Smad3; hSMAD3
Background	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 functions as a
	transcriptional modulator activated by transforming
	growth factor-beta and is thought to play a role in
	the regulation of carcinogenesis. [provided by
	RefSeq, Apr 2009],



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