

## Smad3 (phospho Ser425) rabbit pAb

## Cat No.:ES1459

For research use only

## Overview

Product Name	Smad3 (phospho Ser425) rabbit pAb	
Host species	Rabbit	
Applications	IF;WB;IHC;ELISA	
Species Cross-Reactivity	Human;Mouse;Rat	
<b>Recommended dilutions</b>	IF: 1:50-200 Western Blot: 1/500 - 1/2000.	
	Immunohistochemistry: 1/100 - 1/300. ELISA:	
	1/40000. Not yet tested in other applications.	
Immunogen	The antiserum was produced against synthesized	
	peptide derived from human Smad3 around the	
	phosphorylation site of Ser425. AA range:376-425	
Specificity	Phospho-Smad3 (S425) Polyclonal Antibody detects	
	endogenous levels of Smad3 protein only when	
	phosphorylated at \$425.	
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and	
	0.02% sodium azide.	
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.	
Protein Name	Mothers against decapentaplegic homolog 3	
Gene Name	SMAD3	
<b>Cellular localization</b>	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	



+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



D	
Purification	

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

Background

the cytoplasm of the inner cell mass at the blastocyst stage (By similarity) The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Polyclonal 1 mg/ml 58kD 4088 P84022 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 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

development with expression becoming evident in



Immunofluorescence analysis of Hela cell. 1,Smad3 (phospho Ser425) Polyclonal Antibody(red) was diluted at 1:200(4° overnight). ATG5 mouse Monoclonal Antibody(3C7)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS36



+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.

RefSeq, Apr 2009],





Immunofluorescence analysis of rat-lung tissue. 1,Smad3 (phospho Ser425) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A





Immunofluorescence analysis of mouse-kidney tissue. 1,Smad3 (phospho Ser425) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



+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