



Smad3 (phospho Thr179) rabbit pAb

Cat No.:ES6160

For research use only

Overview

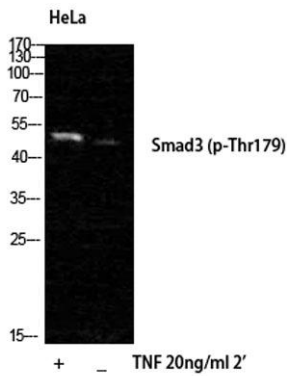
Product Name	Smad3 (phospho Thr179) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Smad3 around the phosphorylation site of Thr179. AA range:145-194
Specificity	Phospho-Smad3 (T179) Polyclonal Antibody detects endogenous levels of Smad3 protein only when phosphorylated at T179.
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
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/S
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





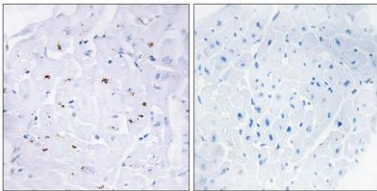
Background

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 RefSeq, Apr 2009],



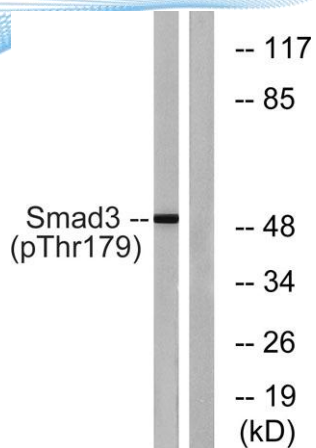
Western Blot analysis of HELA cells using Phospho-Smad3 (T179) Polyclonal Antibody

Immunohistochemistry analysis of paraffin-embedded human heart, using Smad3 (Phospho-Thr179) Antibody. The picture on the right is blocked with the phospho peptide.





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Western blot analysis of lysates from HeLa cells treated with TNF 20ng/ml 2', using Smad3 (Phospho-Thr179) Antibody. The lane on the right is blocked with the phospho peptide.



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