

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 51069-2-AP	<b>GenBank-Zugangsnummer:</b> BC002379	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul, Konzentration: 350 µg/ml von Nanodrop und 260 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> 4089	<b>Empfohlene Verdünnungen:</b> WB 1:500-1:2400 IHC 1:50-1:500 IF 1:10-1:100
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> SMAD family member 4	
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 60 kDa	
	<b>Beobachtete Masse:</b> 63 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> FC, IF, IHC, WB, ELISA	<b>Positivkontrollen:</b> WB : HeLa-Zellen, A431-Zellen, A549-Zellen, COLO 320-Zellen, HEK-293-Zellen, HepG2-Zellen, MCF-7-Zellen, PC-3-Zellen
<b>In Publikationen genannte Anwendungen:</b> IF, WB	<b>IHC :</b> humanes Tonsillitisgewebe, humanes Herzgewebe, humanes Leberkarzinomgewebe, humanes Lungenkarzinomgewebe
<b>Getestete Reaktivität:</b> Human, Maus	<b>IF :</b> HepG2-Zellen,
<b>Zitierte Arten:</b> Human, Maus, Ratte	
<b>Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.</b>	

## Hintergrundinformationen

Mammalian homologs of the Drosophila Mad gene include Smad1, Smad2, Smad3, Smad4 (DPC4), Smad5, Smad6, Smad7 and Smad8. Smad1 and Smad5 are effectors of BMP2 and BMP4 function while Smad2 and Smad3 are involved in TGF and activin-mediated growth modulation. Smad4 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 signaling by interfering with TGF-mediated phosphorylation of other Smad family members. This antibody is a rabbit polyclonal antibody raised against a peptide mapping within human SMAD4.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
X Liu	36281726	Physiol Res	WB,IF
Jing Li	32738709	Chemosphere	WB
Reiko Iida	34883249	Biochim Biophys Acta Mol Basis Dis	WB,IF

## Lagerung

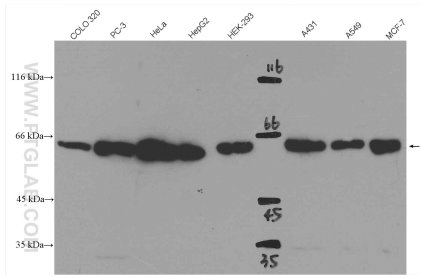
**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
Aliquotieren ist nicht notwendig bei -20°C Lagerung

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

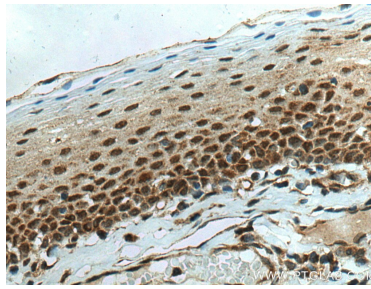
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

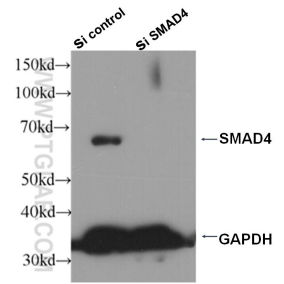
## Ausgewählte Validierungsdaten



Various lysates were subjected to SDS PAGE followed by western blot with 51069-2-AP (SMAD4 antibody) at dilution of 1:1200 incubated at room temperature for 1.5 hours.



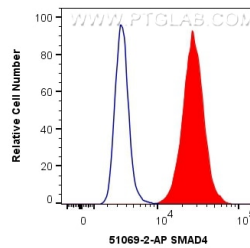
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 51069-2-AP (SMAD4 antibody) at dilution of 1:200 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of SMAD4 antibody (51069-1-AP, 1:1000) with sh-control and sh-SMAD4 transfected HepG2 cells.



Immunofluorescent analysis of ( ) fixed HepG2 cells using 51069-2-AP (SMAD4 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.5  $\mu$ g Anti-Human SMAD4 (51069-2-AP) and CoraLite<sup>®</sup>488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.5  $\mu$ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).