Nur für Forschungszwecke

# SMAD7 Monoklonaler Antikörper

Katalog-Nr.:66478-1-Ig 9 Publikationen

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## Allgemeine Informationen

Katalog-Nr.:
66478-1-Ig

Größe:
150ul , Konzentration: 1000 μg/ml durch die Bradford-Methode mit BSA als Standard;

Wirt:
Maus

Isotyp:
IgG2b

Immunogen Katalognummer:
AG13688

GenBank-Zugangsnummer:
BC074819

GeneID (NCBI):
4092

Vollständiger Name:
SMAD family member 7

Berechneté Masse:
426 aa, 46 kDa

Beobachteté Masse:
50 kDa

Reinigungsmethode:
Protein-A-Reinigung

CloneNo.:
2B9A4

Empfohlene Verdünnungen:
WB 1:500-1:3000
IHC 1:50-1:500

## Anwendungen

Geprüfte Anwendungen:
IHC, WB, ELISA

In Publikationen genannte Anwendungen:
WB

Getestete Reaktivität:
Hausschwein, Human, Maus, Ratte

Zitierte Arten:
Human, Maus, Ratte

***Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.***

Positivkontrollen:

WB : Hausschwein-Hirngewebe, Hausschwein-Nierengewebe, Maushirngewebe, Maus-Skelettmuskelgewebe, Rattenhirngewebe, Rattennierengewebe

IHC : Maus-Cerebellum-Gewebe, humanes Nierengewebe

## Hintergrundinformationen

SMAD7, also named as Mothers against decapentaplegic homolog 7, is a 426 amino acid protein, which belongs to the dwarfin/SMAD family. SMAD7 Interaction with NEDD4L or RNF111 induces translocation from the nucleus to the cytoplasm (PubMed:16601693). TGF-beta stimulates its translocation from the nucleus to the cytoplasm. PDPK1 inhibits its translocation from the nucleus to the cytoplasm in response to TGF-beta (PubMed:17327236). SMAD7 as antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members has been shown to inhibit TGF-beta (Transforming growth factor) and activin signaling by associating with their receptors thus preventing SMAD2 access. SMAD7 functions as an adapter to recruit SMURF2 to the TGF-beta receptor complex and also acts by recruiting the PPP1R15A-PP1 complex to TGFBR1, which promotes its dephosphorylation. SMAD7 positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.

## Bemerkenswerte Veröffentlichungen

| Verfasser | Pubmed ID | Journal | Anwendung |
|---|---|---|---|
| Qingshan Ji | 33253708 | Exp Cell Res | WB |
| Yuxing Zhu | 33147570 | Aging (Albany NY) | WB |
| Beichen Li | 35727431 | Stem Cell Rev Rep | WB |

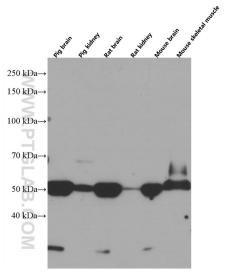
## Lagerung

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

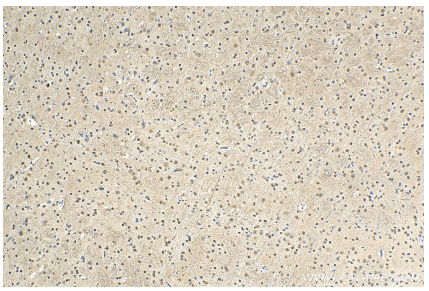
*** 20ul-Größen enthalten 0.1% BSA

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
W: ptglab.com

## Ausgewählte Validierungsdaten




Various lysates were subjected to SDS PAGE followed by western blot with 66478-1-Ig (SMAD7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 66478-1-Ig (SMAD7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).