

À des fins de recherche uniquement

# Anticorps Monoclonal anti-SMAD7

Numéro de catalogue: 66478-1-Ig **9 Publications**



## Informations de base

<b>Numéro de catalogue:</b> 66478-1-Ig	<b>Numéro d'acquisition GenBank:</b> BC074819	<b>Méthode de purification:</b> Purification par protéine A
<b>Taille:</b> 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>Identification du gène (NCBI):</b> 4092	<b>CloneNo.:</b> 2B9A4
<b>Hôte:</b> Mouse	<b>Nom complet:</b> SMAD family member 7	<b>Dilutions recommandées:</b> WB 1:500-1:3000 IHC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>MW calculé:</b> 426 aa, 46 kDa	
<b>Immunogen Catalog Number:</b> AG13688	<b>MW observés:</b> 50 kDa	

## Applications

### Applications testées:

IHC, WB, ELISA

### Demandes citées:

WB

### Spécificité de l'espèce:

Humain, porc, rat, souris

### Espèces citées:

Humain, rat, souris

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (\*) A défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.**

### Contrôles positifs:

**WB :** tissu cérébral de porc, tissu cérébral de rat, tissu cérébral de souris, tissu de muscle squelettique de souris, tissu rénal de porc, tissu rénal de rat

**IHC :** tissu de cervelet de souris, tissu rénal humain

## Informations générales

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.

## Publications notables

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

## Stockage

### Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

### Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

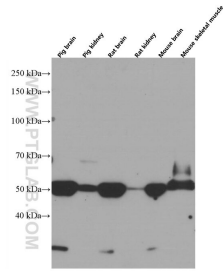
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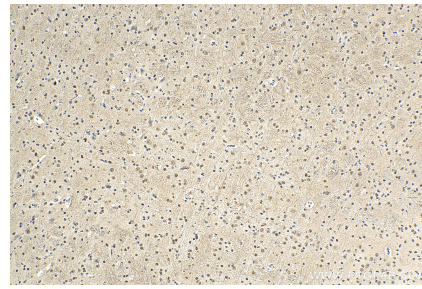
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## Données de validation sélectionnées



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).