À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-SMAD2

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Antibodies | ELISA kits | Proteins
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Numéro de catalogue:12570-1-AP Phare 124 Publications

Informations de base

Numéro de catalogue:
12570-1-AP

Taille:
150ul , Concentration: 300 μg/ml by Nanodrop and 220 μg/ml by Bradford method using BSA as the standard;

Hôte:
Lapin

Isotype:
IgG

Immunogen Catalog Number:
AG3237

Numéro d'acquisition GenBank:
BC014840

Identification du gène (NCBI):
4087

Nom complet:
SMAD family member 2

MW calculé
467 aa, 52 kDa

MW observés:
58 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:2000-1:10000
IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
IHC 1:50-1:500
IF 1:10-1:100

Applications

Applications testées:
IF, IHC, IP, WB, ELISA

Demandes citées:
ChIP, CoIP, IF, IHC, IP, WB

Spécificité de l'espèce:
Humain, 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; (*) À défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : cellules A549, cellules HEK-293, cellules HeLa, cellules HepG2, cellules Jurkat, cellules MCF-7, cellules PC-3, tissu de muscle squelettique de rat, tissu de muscle squelettique de souris

IP : cellules HepG2,

IHC : tissu de cancer du côlon humain, tissu de cancer de l'endomètre humain, tissu de cancer de l'estomac humain, tissu de côlon de rat, tissu de côlon de souris

IF : cellules HepG2,

Informations générales

SMAD2, also named as MADH2 and MADR2, belongs to the dwarfin/SMAD family, contains 1 MH1 (MAD homology 1) domain and 1 MH2 (MAD homology 2) domain. SMAD2 is a receptor-regulated SMAD(R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. This protein may act as a tumor suppressor in colorectal carcinoma. It is phosphorylated on one or several of Thr-220, Ser-245, Ser-250, and Ser-255. In response to TGF-beta, It is phosphorylated on Ser-465/467 by TGF-beta and activin type 1 receptor kinases, and then able to interact with SMURF2, recruiting other proteins, such as SNON, for degradation. In response to decorin, the naturally occurring inhibitor of TGF-beta signaling, it is phosphorylated on Ser-240 by CaMK2. It is phosphorylated by MAPK3 upon EGF stimulation; which increases transcriptional activity and stability, and is blocked by calmodulin. In response to TGF-beta, it is ubiquitinated by NEDD4L, which promotes its degradation. In response to TGF-beta signaling, it is acetylated on Lys-19 by coactivators, which increases transcriptional activity. This antibody is a rabbit polyclonal antibody raised against residues near the N terminus of human SMAD2. The molecular weight of unphosphorylated forms of Smad2 is 52 kDa and phosphorylated forms of Smad2 is 58 kDa. (PMID: 9006934). The ubiquitination form of Smad2 is ~70 kDa (PMID: 25998442).

Publications notables

Autrice	Pubmed ID	Journal	Application
Shun Gu	33007305	Exp Eye Res	WB
Shaling Li	36169092	Cancer Sci	WB
Bingyu Xie	36179941	Mol Cell Endocrinol	WB

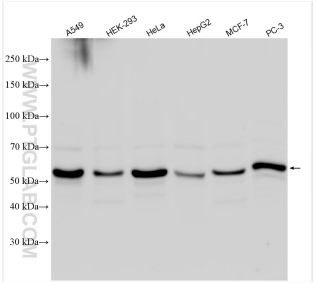
Stockage

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

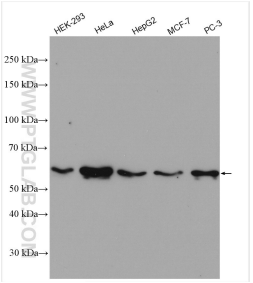
***** Les 20ul contiennent 0,1% de BSA.**

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

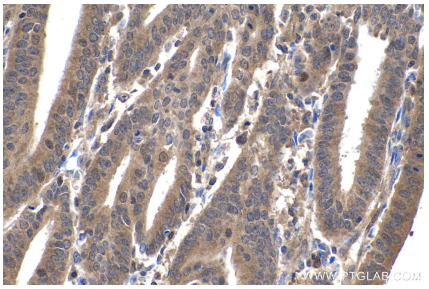
Données de validation sélectionnées



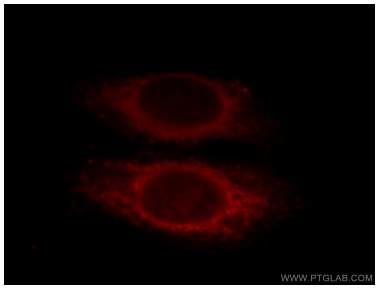
Various lysates were subjected to SDS PAGE followed by western blot with 12570-1-AP (SMAD2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



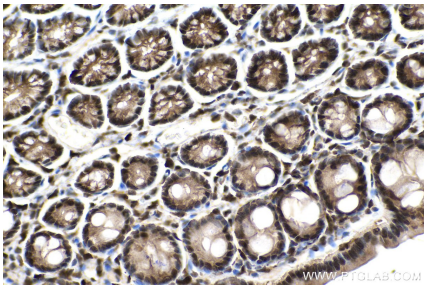
Various lysates were subjected to SDS PAGE followed by western blot with 12570-1-AP (SMAD2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



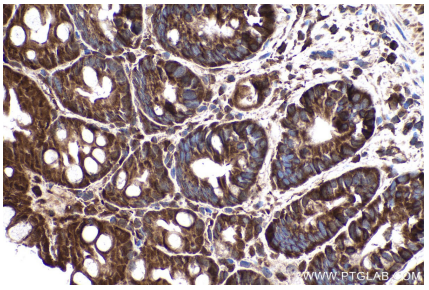
Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue slide using 12570-1-AP (SMAD2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



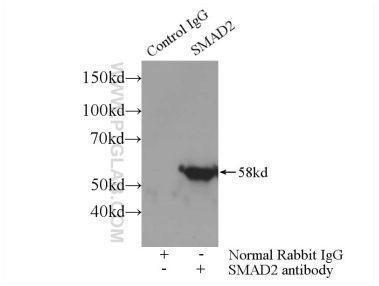
Immunofluorescent analysis of HepG2 cells, using SMAD2 antibody 12570-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



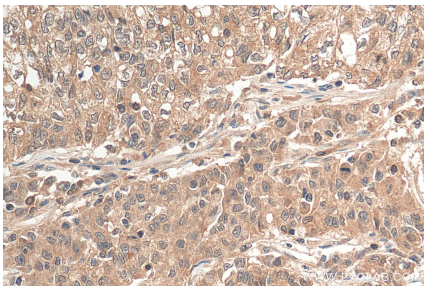
Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 12570-1-AP (SMAD2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



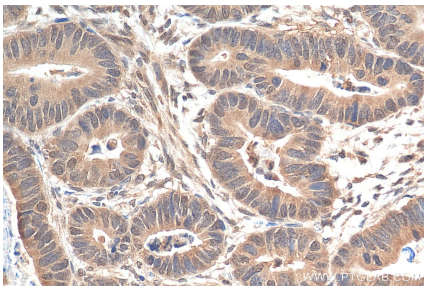
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 12570-1-AP (SMAD2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-SMAD2 (IP:12570-1-AP, 3ug; Detection:12570-1-AP 1:1000) with HepG2 cells lysate 3000ug.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 12570-1-AP (SMAD2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12570-1-AP (SMAD2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).