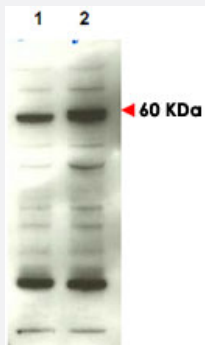


# SMAD4 polyclonal antibody

Catalog # PAB11265      Size 100 ug

## Applications



### Western Blot (Transfected lysate)

Western blot using SMAD4 polyclonal antibody (Cat # PAB11265) to detect over-expressed SMAD4 in transfected COS cells (lane 2).

Lane 1 contains lysate from mock transfected COS cells.

A doublet band is seen in the SMAD4 transfected lysate with the upper band (arrowhead) representing SMAD4 and the lower band being non-specific staining.

The primary antibody at a 1:1,000 dilution.

Personal Communication, Kathleen Flanders, CCR-NCI, Bethesda, MD.

## Specification

**Product Description** Rabbit polyclonal antibody raised against synthetic peptide of SMAD4.

**Immunogen** A synthetic peptide corresponding to C-terminus of human SMAD4.

**Host** Rabbit

**Reactivity** Frog, Human, Mouse

**Form** Liquid

**Quality Control Testing** Antibody Reactive Against Synthetic Peptide.

**Recommend Usage**  
ELISA (1:15000-1:60000)  
Western Blot (1:500-1:2000)  
The optimal working dilution should be determined by the end user.

**Storage Buffer** In 20 mM KH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, pH 7.2 (0.01% sodium azide)

**Storage Instruction**  
Store at 4°C. For long term storage store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Personal Communication, Kathleen Flanders, CCR-NCI, Bethesda, MD.

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — SMAD4

|                    |                                                                                                                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">4089</a>                                                                                                                                                                                                                               |
| Protein Accession# | <a href="#">BAB40977;Q13485</a>                                                                                                                                                                                                                    |
| Gene Name          | SMAD4                                                                                                                                                                                                                                              |
| Gene Alias         | DPC4, JIP, MADH4                                                                                                                                                                                                                                   |
| Gene Description   | SMAD family member 4                                                                                                                                                                                                                               |
| Omim ID            | <a href="#">174900</a> <a href="#">175050</a> <a href="#">600993</a>                                                                                                                                                                               |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                          |
| Gene Summary       | mothers against decapentaplegic homolog 4 OTTHUMP00000163548 SMAD                                                                                                                                                                                  |
| Other Designations | MAD, mothers against decapentaplegic homolog 4 OTTHUMP00000163548 SMAD, mothers against DPP homolog 4 deleted in pancreatic carcinoma locus 4 mothers against decapentaplegic homolog 4 mothers against decapentaplegic, Drosophila, homolog of, 4 |

## Publication Reference

- [Smad4 is critical for self-renewal of hematopoietic stem cells.](#)

Karlsson G, Blank U, Moody JL, Ehinger M, Singbrant S, Deng CX, Karlsson S.

The Journal of Experimental Medicine 2007 Mar; 204(3):467.

- [Inactivation of SMAD4 tumor suppressor gene during gastric carcinoma progression.](#)

Wang LH, Kim SH, Lee JH, Choi YL, Kim YC, Park TS, Hong YC, Wu CF, Shin YK.

Clinical Cancer Research 2007 Jan; 13(1):102.

Application: IHC-P, WB, Human, AGS, MKN28, MKN74, SNU16, SNU484 cells, Human gastric carcinoma tissues

- [Smad4 cooperates with lymphoid enhancer-binding factor 1/T cell-specific factor to increase c-myc expression in the absence of TGF-beta signaling.](#)

Lim SK, Hoffmann FM.

PNAS 2006 Dec; 103(49):18580.

Application: ChIP, WB, Human, HepG2 cells

## Pathway

- [Adherens junction](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [TGF-beta signaling pathway](#)
- [Wnt signaling pathway](#)

## Disease

- [Adenocarcinoma](#)
- [Adenomatous Polyposis Coli](#)
- [Carcinoma](#)

- [Cardiovascular Diseases](#)
- [Chromosome Deletion](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Models](#)
- [Edema](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hemochromatosis](#)
- [Hypertension](#)
- [Intestinal Polyposis](#)
- [Intestinal Polyps](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Microsatellite Instability](#)
- [Neoplasms](#)
- [Neoplastic Syndromes](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Pancreatic cancer](#)

- [Pancreatic Neoplasms](#)
- [Peutz-Jeghers Syndrome](#)
- [Polycystic Ovary Syndrome](#)
- [Polyps](#)
- [Precancerous Conditions](#)
- [Puberty](#)
- [Stomach Neoplasms](#)
- [Telangiectasia](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)