# 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)<br>Western Blot (1:500-1:2000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 20 mM $KH_2PO_4$, 150 mM NaCl, pH 7.2 (0.01% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

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|---|---|
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- 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.

## Gene Info — SMAD4

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

## Publication Reference

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- 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

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- 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

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

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