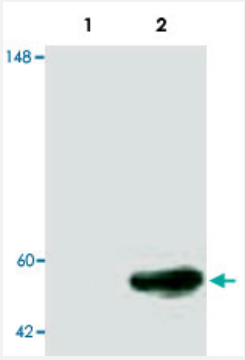
SMAD3 polyclonal antibody

Catalog # PAB11264 Size 100 ug

Applications



Western Blot (Transfected lysate)

Western blot using SMAD3 polyclonal antibody (Cat # PAB11264) to detect over-expressed SMAD3 in MDA-MB-231 cells (lane 2).
Lane 1 shows mock infection of MDA-MB-231 cells with lentiviral vector alone.
The primary antibody at a 1:5,000 dilution.
Personal Communication, Allan Weissman, CCR-NCI, Bethesda, MD.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SMAD3.
Immunogen	A synthetic peptide corresponding to internal region of human SMAD3.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is Smad3 specific, and reactivity to other Smad proteins (specifically Smad1, Smad2, Smad4, and Smad7) is not detected in over-expressed cell lysates.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:15000-1:50000) Western Blot (1:500-1:10000) 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)

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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 shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Transfected lysate)

  Western blot using SMAD3 polyclonal antibody (Cat # PAB11264) to detect over-expressed SMAD3 in MDA-MB-231 cells (lane 2).
  Lane 1 shows mock infection of MDA-MB-231 cells with lentiviral vector alone.
  The primary antibody at a 1:5,000 dilution.
  Personal Communication, Allan Weissman, CCR-NCI, Bethesda, MD.

Gene Info — SMAD3

Entrez GeneID	4088
Protein Accession#	NP_005893;P84022
Gene Name	SMAD3
Gene Alias	DKFZp586N0721, DKFZp686J10186, HSPC193, HsT17436, JV15-2, MADH3, MGC60396
Gene Description	SMAD family member 3
Omim ID	603109
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene pr oducts of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis. [provided by R efSeq
Other Designations	MAD, mothers against decapentaplegic homolog 3|SMA- and MAD-related protein 3|SMAD, mot hers against DPP homolog 3|mad homolog JV15-2|mad protein homolog|mothers against decap entaplegic homolog 3

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Publication Reference

- Smad-dependent and Smad-independent pathways in TGF-beta family signalling.

  Derynck R, Zhang YE.

  Nature 2003 Oct; 425(6958):577.

  Application: WB-Tr, Human, Mammalian cells

- Mechanisms of TGF-beta signaling from cell membrane to the nucleus.

  Shi Y, Massagué J.

  Cell 2003 Jun; 113(6):685.

- TGF-beta receptor-mediated signalling through Smad2, Smad3 and Smad4.

  Nakao A, Imamura T, Souchelnytskyi S, Kawabata M, Ishisaki A, Oeda E, Tamaki K, Hanai J, Heldin CH, Miyazono K, ten Dijke P.

  The EMBO Journal 1997 Sep; 16(17):5353.

  Application: IF, Mink, Mv1Lu cells

Pathway

- Adherens junction
- Cell cycle
- Chronic myeloid leukemia
- Colorectal cancer
- Pancreatic cancer
- Pathways in cancer
- TGF-beta signaling pathway
- Wnt signaling pathway

Disease

- Alzheimer disease

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- Anemia
- Asthma
- Bacteremia
- Breast cancer
- Breast Neoplasms
- Cleft Lip
- Cleft Palate
- Coronary Artery Disease
- Crohn Disease
- Diabetes Mellitus
- Diabetic Nephropathies
- Genetic Predisposition to Disease
- Graft vs Host Disease
- Head and Neck Neoplasms
- Hypersensitivity
- Hypertension
- Keloid
- Kidney Failure
- Liver Cirrhosis
- Neoplasm Recurrence
- Neoplasms
- Obesity
- Occupational Diseases
- Osteoarthritis
- Osteoporosis
- Ovarian cancer

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- Ovarian Failure
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Polycystic Ovary Syndrome
- Prostate cancer
- Prostatic Neoplasms
- Puberty
- Pulmonary Disease
- Thrombophilia
- Tobacco Use Disorder

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