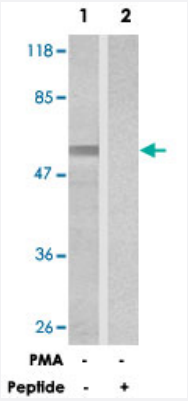
SMAD1 polyclonal antibody

Catalog # PAB26822 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells treated with PMA (200 uM, 30 min) using SMAD1 polyclonal antibody (Cat # PAB26822).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SMAD1.
Immunogen	A synthetic peptide corresponding to residues surrounding S465 of human SMAD1.
Sequence	I-S-S-V-Sp
Host	Rabbit
Theoretical MW (kDa)	55
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity chromatography
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	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

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Gene Info — SMAD1

Entrez GeneID	4086
Protein Accession#	Q15797
Gene Name	SMAD1
Gene Alias	BSP1, JV4-1, JV41, MADH1, MADR1
Gene Description	SMAD family member 1
Omim ID	601595
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 mediates the signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphoge nesis, development and immune responses. In response to BMP ligands, this protein can be pho sphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein fo rms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and u ndergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript v ariants encoding the same protein have been observed. [provided by RefSeq
Other Designations	MAD, mothers against decapentaplegic homolog 1|Mad-related protein 1|SMAD, mothers agains t DPP homolog 1|Sma- and Mad-related protein 1|TGF-beta signaling protein 1|mothers against DPP homolog 1|transforming growth factor-beta signaling protein 1

Pathway

- TGF-beta signaling pathway

Disease

- Cleft Lip
- Cleft Palate
- Diabetes Mellitus
- Diabetic Nephropathies
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hemochromatosis
- Hypertension
- Kidney Failure
- Neoplasm Recurrence
- Neoplasms
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder