

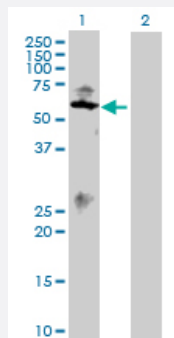
MaxPab®

SMAD1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00004086-D01P

Size 100 ug

Applications

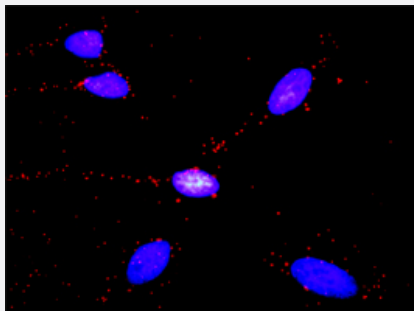


Western Blot (Transfected lysate)

Western Blot analysis of SMAD1 expression in transfected 293T cell line ([H00004086-T01](#)) by SMAD1 MaxPab polyclonal antibody.

Lane 1: SMAD1 transfected lysate(52.30 KDa).

Lane 2: Non-transfected lysate.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between SMAD1 and GLI3. HeLa cells were stained with anti-SMAD1 rabbit purified polyclonal 1:1200 and anti-GLI3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human SMAD1 protein.

Immunogen

SMAD1 (NP_001003688.1, 1 a.a. ~ 465 a.a) full-length human protein.

Sequence

MNVTSLFSFTSPAVKRLGLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSCPGQPS
NCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDQLQSHHEKPLECCEFPFGSKQKEVCINPYHY
KRVESPVLPVLPVPRHSEYNPQHSLLAQFRNLGQNEPHMPLNATFPDSFQQPNSHFPHPSPNS
SYNSPGSSSSTYPHSPTSSDPGSPFQMPADTPPPAYLPPEDPMTQDGSQPMMDTNMMAPPLP
SEINRGDVQAVAYECPKHWCSEVYELNNRVGEAFHASSTSVLVDGFTDPSNNKNRFCLGLLSNV
NRNSTIENTRRHIGKGVHLYYVGGEVYAECLSDSSIFVQSRNCNYHHGFHPTTVCKIPSGCSLKIFN
NQEFAQLLAQSVNHGFETVYELTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHGPLQWLDK
VLTQMGSPHNPISSVS

Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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[Protocol Download](#)

- In situ* Proximity Ligation Assay (Cell)

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Gene Info — SMAD1

Entrez GeneID	4086
GeneBank Accession#	NM_001003688
Protein Accession#	NP_001003688.1
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 products 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, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms 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 undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq]

Other Designations

MAD, mothers against decapentaplegic homolog 1|Mad-related protein 1|SMAD, mothers against 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](#)