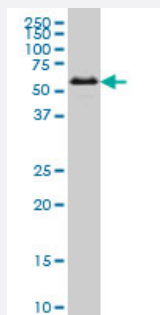


SMAD1 monoclonal antibody (M05), clone 1C7

Catalog # H00004086-M05

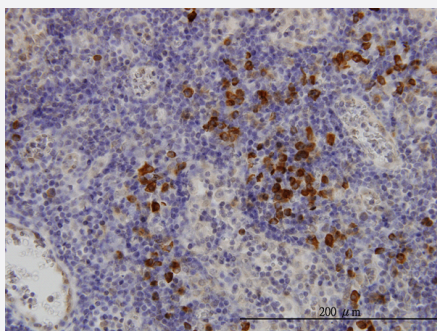
Size 100 ug

Applications



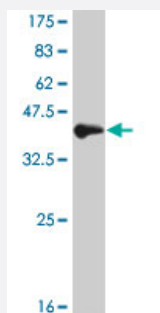
Western Blot (Cell lysate)

SMAD1 monoclonal antibody (M05), clone 1C7 Western Blot analysis of SMAD1 expression in HeLa S3 NE (Cat # L013V3).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to SMAD1 on formalin-fixed paraffin-embedded human lymph node. [antibody concentration 3 ug/ml]



Western Blot detection against Immunogen (37.84 kDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant SMAD1.

Immunogen	SMAD1 (NP_005891, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MNVTSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEEELEKALSCPGQPS NCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDQLQSHHELKPLECCE
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (100)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

SMAD1 monoclonal antibody (M05), clone 1C7 Western Blot analysis of SMAD1 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to SMAD1 on formalin-fixed paraffin-embedded human lymph node. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- ELISA

Gene Info — SMAD1

Entrez GeneID

[4086](#)

GeneBank Accession#	NM_005900
Protein Accession#	NP_005891
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

Publication Reference

- [Cdc2-like kinase 2 \(Cik2\) promotes early neural development in Xenopus embryos.](#)

Viririnia RP, Jahan N, Okada M, Takebayashi-Suzuki K, Yoshida H, Nakamura M, Akao H, Yoshimoto Y, Fatchiyah F, Ueno N, Suzuki A.

Development, Growth & Differentiation 2019 Aug; 61(6):365.

Application: WB-Tr, Xenopus, Xenopus embryos

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](#)