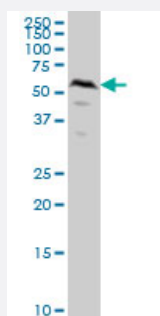


SMAD1 monoclonal antibody (M04A), clone 2A1

Catalog # H00004086-M04A

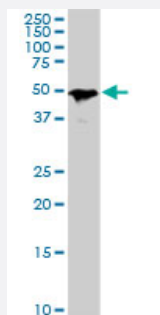
Size 200 uL

Applications



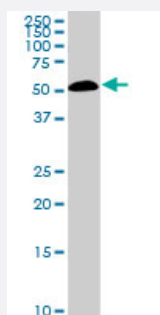
Western Blot (Cell lysate)

SMAD1 monoclonal antibody (M04A), clone 2A1 Western Blot analysis of SMAD1 expression in HeLa (Cat # L013V1).



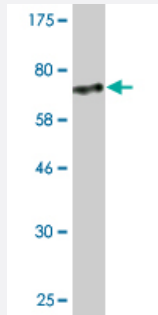
Western Blot (Cell lysate)

SMAD1 monoclonal antibody (M04A), clone 2A1. Western Blot analysis of SMAD1 expression in PC-12 (Cat # L012V1).



Western Blot (Cell lysate)

SMAD1 monoclonal antibody (M04A), clone 2A1. Western Blot analysis of SMAD1 expression in NIH/3T3 (Cat # L018V1).



Western Blot detection against Immunogen (76.89 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant SMAD1.
Immunogen	SMAD1 (AAH01878.1, 1 a.a. ~ 465 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MNVTSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSCPGQPS NCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDQLQSHHELKPLECCEFPFGSKQKEVCINPYHY KRVESPVLPVLPVPRHSEYNPQHSLLAQFRNLGQNEPHMPLNATFPDSFQQPNSHFPHPSPNS SYNSPGSSSSTYPHSPTSSDPGSPFQMPADTPPPAYLPPEDPMTQDGSQPMDTNMMAPPLP SEINRGDVQAVAYECPKHWCIVYYELNNRVGEAFHASSTSVLVDGFTDPSNNKNRFLGLLSNV NRNSTIENTRRHIGKGVHLYYVGGEVYAECLSDSSIFVQSRNCNYHHGFHPTTVCKIPSGCSLKIFN NQEFAQLLAQSVNHGFETVYELTKMCTIRMSFVKGWGAHEYHRQDVTSTPCWIEIHLHGPLQWLDK VLTQMGSPHNPISSVS
Host	Mouse
Reactivity	Human, Mouse, Rat
Interspecies Antigen Sequence	Mouse (99)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (76.89 KDa) .
Storage Buffer	In ascites fluid
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

SMAD1 monoclonal antibody (M04A), clone 2A1 Western Blot analysis of SMAD1 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

SMAD1 monoclonal antibody (M04A), clone 2A1. Western Blot analysis of SMAD1 expression in PC-12 (Cat # L012V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

SMAD1 monoclonal antibody (M04A), clone 2A1. Western Blot analysis of SMAD1 expression in NIH/3T3 (Cat # L018V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — SMAD1

Entrez GeneID	4086
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GeneBank Accession#	BC001878
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Protein Accession#	AAH01878.1
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Gene Name	SMAD1
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Gene Alias	BSP1, JV4-1, JV41, MADH1, MADR1
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Gene Description	SMAD family member 1
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Omim ID	601595
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Gene Ontology	Hyperlink
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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](#)