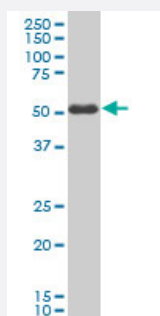


SMAD3 monoclonal antibody (M01), clone 2C12

Catalog # H00004088-M01

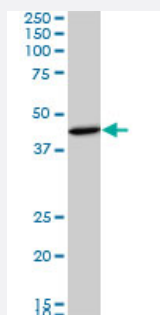
Size 100 ug

Applications



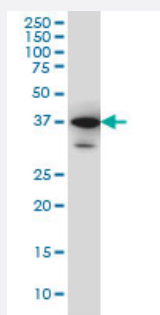
Western Blot (Tissue lysate)

SMAD3 monoclonal antibody (M01), clone 2C12. Western Blot analysis of SMAD3 expression in human colon.



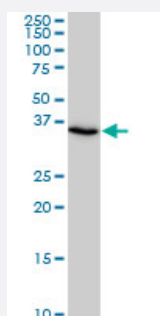
Western Blot (Cell lysate)

SMAD3 monoclonal antibody (M01), clone 2C12. Western Blot analysis of SMAD3 expression in Hs 181.Tes.



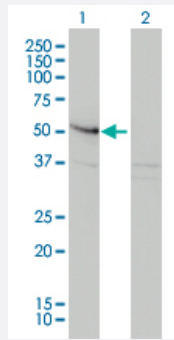
Western Blot (Cell lysate)

SMAD3 monoclonal antibody (M01), clone 2C12. Western Blot analysis of SMAD3 expression in HeLa.



Western Blot (Cell lysate)

SMAD3 monoclonal antibody (M01), clone 2C12. Western Blot analysis of SMAD3 expression in U-2 OS (Cat # L022V1).

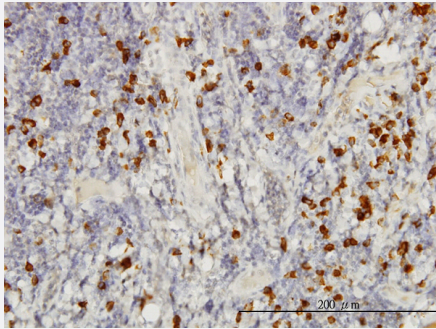


Western Blot (Transfected lysate)

Western Blot analysis of SMAD3 expression in transfected 293T cell line by SMAD3 monoclonal antibody (M01), clone 2C12.

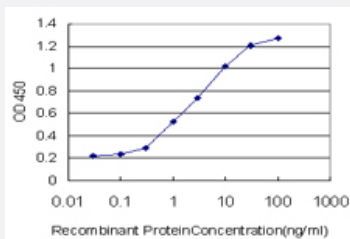
Lane 1: SMAD3 transfected lysate(48 KDa).

Lane 2: Non-transfected lysate.



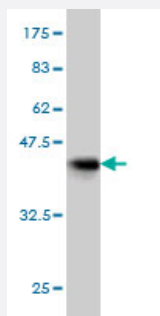
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to SMAD3 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 6 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SMAD3 is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.96 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant SMAD3.

Immunogen

SMAD3 (NP_005893, 120 a.a. ~ 221 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence	VCVNPYHYQRVETPVLPPVLVPRHTEIPAEFPPLDDYSHSIPENTNFPAGIEPQSNIPETPPPGYLS EDGETSDHQMNHSM DAGSPNLSPNPMSPAHNNDL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (100); Rat (100)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.96 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 (Tissue lysate)

SMAD3 monoclonal antibody (M01), clone 2C12. Western Blot analysis of SMAD3 expression in human colon.

[Protocol Download](#)

- Western Blot (Cell lysate)

SMAD3 monoclonal antibody (M01), clone 2C12. Western Blot analysis of SMAD3 expression in Hs 181.Tes.

[Protocol Download](#)

- Western Blot (Cell lysate)

SMAD3 monoclonal antibody (M01), clone 2C12. Western Blot analysis of SMAD3 expression in HeLa.

[Protocol Download](#)

- Western Blot (Cell lysate)

SMAD3 monoclonal antibody (M01), clone 2C12. Western Blot analysis of SMAD3 expression in U-2 OS (Cat # L022V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of SMAD3 expression in transfected 293T cell line by SMAD3 monoclonal antibody (M01), clone 2C12.

Lane 1: SMAD3 transfected lysate(48 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to SMAD3 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 6 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SMAD3 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — SMAD3

Entrez GeneID	4088
---------------	----------------------

GeneBank Accession#	NM_005902
---------------------	---------------------------

Protein Accession#	NP_005893
--------------------	---------------------------

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 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 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 RefSeq]

Other Designations

MAD, mothers against decapentaplegic homolog 3|SMA- and MAD-related protein 3|SMAD, mothers against DPP homolog 3|mad homolog JV15-2|mad protein homolog|mothers against decapentaplegic homolog 3

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](#)
- [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](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)

- [Puberty](#)
- [Pulmonary Disease](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)