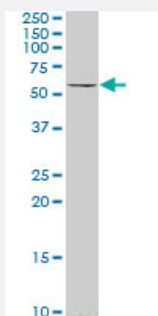


SMAD4 monoclonal antibody (M02), clone 3E2

Catalog # H00004089-M02

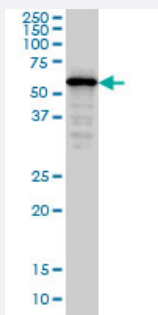
Size 100 ug

Applications



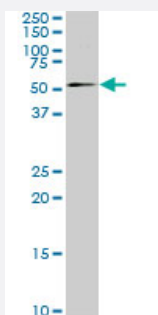
Western Blot (Cell lysate)

SMAD4 monoclonal antibody (M02), clone 3E2. Western Blot analysis of SMAD4 expression in K-562 (Cat # L009V1).



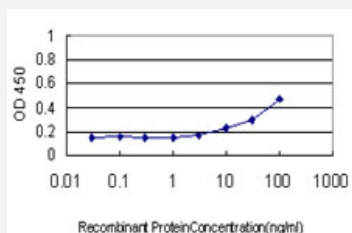
Western Blot (Cell lysate)

SMAD4 monoclonal antibody (M02), clone 3E2 Western Blot analysis of SMAD4 expression in HeLa S3 NE (Cat # L013V3).



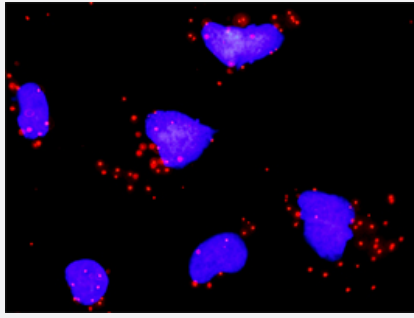
Western Blot (Cell lysate)

SMAD4 monoclonal antibody (M02), clone 3E2. Western Blot analysis of SMAD4 expression in IMR-32 (Cat # L008V1).



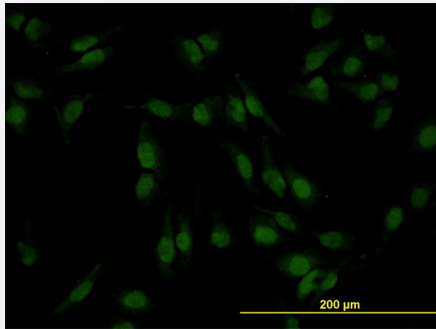
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SMAD4 is approximately 3ng/ml as a capture antibody.



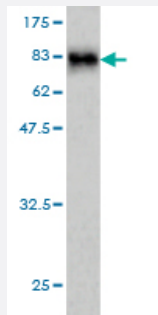
In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between CDKN1A and SMAD4. HeLa cells were stained with anti-CDKN1A rabbit purified polyclonal 1:1200 and anti-SMAD4 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Immunofluorescence

Immunofluorescence of monoclonal antibody to SMAD4 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (86.46 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant SMAD4.
Immunogen	SMAD4 (AAH02379, 1 a.a. ~ 552 a.a) full-length recombinant protein with GST tag. MW of the GST t ag alone is 26 KDa.
Sequence	MDNMSITNTPTSNDACLSIVHSLMCHRQGGSETFAKRAIESLVKKLKEKKDELDSLITAITTSGAH PSKCVTIQRTLDGRLQVAGRKGFPVYIARLWRWPDHLHKNELKHVKYCQYAFDLKCDSVCVNPY HYERVVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPSLSTEGHSIQTIQHPPSNRASTETYST PALLAPSESNAATSTANFPNIPVASTSQPASILGGSHSEGLLQIASGPQPGQQQNGFTGQPATYHHN STTTWTGSRTPATYTPNLPHHQNGHLQHHPMPHPGHYWPVHNELAFQPPISNHPAPEYWCSIA YFEMDVQVGETFKVPSSCPMTVDGYVDPSSGGDRFCLGQLSNVHRTEAIERARLHIGKGVQLECK GEGDVWVRCLSDHAVFVQSYLDREAGRPGDAVHKIYPSAYIKVFDLRQCHRQMQQQAATAQ AAAAAQAAVAGNIPGPGSVGGIAPASLSAAAGIGVDDLRLRLCILRMSFVKGWGPDYPRQSIKET PCWIEIHLHRLALQLLDEVLHTMPIADPQPLD
Host	Mouse

Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (99)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (86.46 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)

SMAD4 monoclonal antibody (M02), clone 3E2. Western Blot analysis of SMAD4 expression in K-562 (Cat # L009V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

SMAD4 monoclonal antibody (M02), clone 3E2 Western Blot analysis of SMAD4 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Cell lysate)

SMAD4 monoclonal antibody (M02), clone 3E2. Western Blot analysis of SMAD4 expression in IMR-32 (Cat # L008V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SMAD4 is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- *In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between CDKN1A and SMAD4. HeLa cells were stained with anti-CDKN1A rabbit purified polyclonal 1:1200 and anti-SMAD4 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- Immunofluorescence

Immunofluorescence of monoclonal antibody to SMAD4 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — SMAD4

Entrez GeneID	4089
GeneBank Accession#	BC002379
Protein Accession#	AAH02379
Gene Name	SMAD4
Gene Alias	DPC4, JIP, MADH4
Gene Description	SMAD family member 4
Omim ID	174900 175050 600993
Gene Ontology	Hyperlink
Gene Summary	mothers against decapentaplegic homolog 4 OTTHUMP00000163548 SMAD
Other Designations	MAD, mothers against decapentaplegic homolog 4 OTTHUMP00000163548 SMAD, mothers against DPP homolog 4 deleted in pancreatic carcinoma locus 4 mothers against decapentaplegic homolog 4 mothers against decapentaplegic, Drosophila, homolog of, 4

Pathway

- [Adherens junction](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)

- [TGF-beta signaling pathway](#)
- [Wnt signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Adenomatous Polyposis Coli](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chromosome Deletion](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Models](#)
- [Edema](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hemochromatosis](#)
- [Hypertension](#)
- [Intestinal Polyposis](#)
- [Intestinal Polyps](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)

- [Microsatellite Instability](#)
- [Neoplasms](#)
- [Neoplastic Syndromes](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Peutz-Jeghers Syndrome](#)
- [Polycystic Ovary Syndrome](#)
- [Polyps](#)
- [Precancerous Conditions](#)
- [Puberty](#)
- [Stomach Neoplasms](#)
- [Telangiectasia](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)