

## **SMAD5 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant SMAD5.

Catalog # AT3944a

### **Specification**

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#### **SMAD5 Antibody (monoclonal) (M01) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">O99717</a>
Other Accession	<a href="#">BC009682</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	52258

#### **SMAD5 Antibody (monoclonal) (M01) - Additional Information**

**Gene ID** 4090

##### **Other Names**

Mothers against decapentaplegic homolog 5, MAD homolog 5, Mothers against DPP homolog 5, JVS-1, SMAD family member 5, SMAD 5, Smad5, hSmad5, SMAD5, MADH5

##### **Target/Specificity**

SMAD5 (AAH09682, 105 a.a. ~ 182 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

##### **Dilution**

WB~~1:500~1000

##### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

##### **Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

##### **Precautions**

SMAD5 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

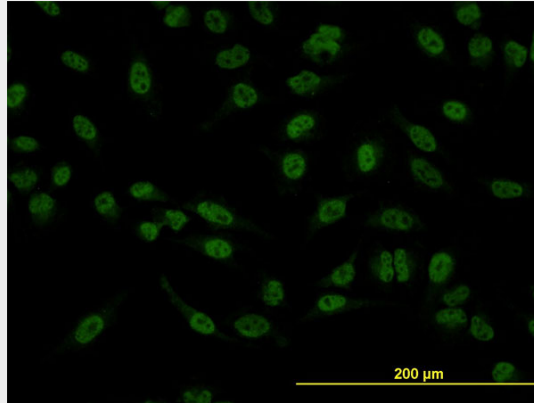
#### **SMAD5 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

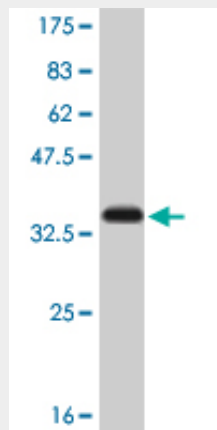
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

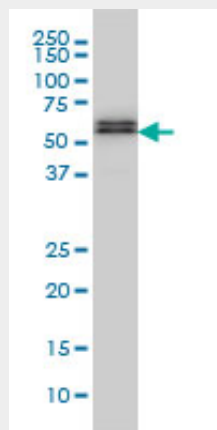
### SMAD5 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to SMAD5 on HeLa cell. [antibody concentration 10 ug/ml]

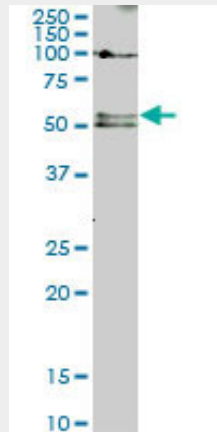


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.21 KDa) .

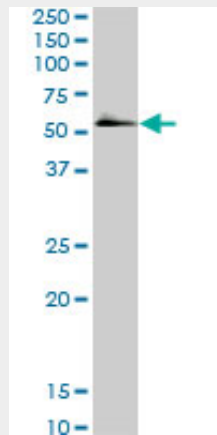


SMAD5 monoclonal antibody (M01), clone 2D7 Western Blot analysis of SMAD5 expression in HeLa

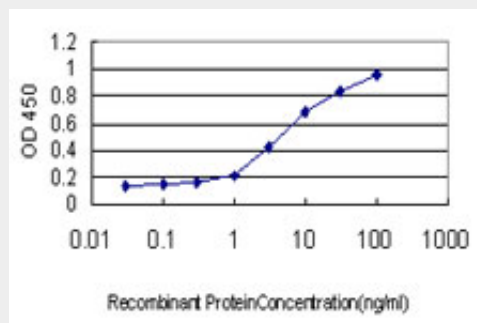
S3 NE ( (Cat # AT3944a )



SMAD5 monoclonal antibody (M01), clone 2D7. Western Blot analysis of SMAD5 expression in Jurkat ( (Cat # AT3944a )



SMAD5 monoclonal antibody (M01), clone 2D7. Western Blot analysis of SMAD5 expression in K-562 ( (Cat # AT3944a )



Detection limit for recombinant GST tagged SMAD5 is approximately 0.1ng/ml as a capture antibody.

**SMAD5 Antibody (monoclonal) (M01) - References**

Smad-dependent and smad-independent induction of id1 by prostacyclin analogues inhibits proliferation of pulmonary artery smooth muscle cells in vitro and in vivo. Yang J, et al. *Circ Res*, 2010 Jul 23. PMID 20522807. Alternative splicing of SMADs in differentiation and tissue homeostasis. Tao S, et al. *Dev Growth Differ*, 2010 May. PMID 20148926. Smad1-Smad5 ovarian conditional knockout mice develop a disease profile similar to the juvenile form of human granulosa cell tumors. Middlebrook BS, et al. *Endocrinology*, 2009 Dec. PMID 19819941. BMP4-Smad signaling

pathway mediates adriamycin-induced premature senescence in lung cancer cells. Su D, et al. J Biol Chem, 2009 May 1. PMID 19269967. Investigation of DNA polymorphisms in SMAD genes for genetic predisposition to diabetic nephropathy in patients with type 1 diabetes mellitus. McKnight AJ, et al. Diabetologia, 2009 May. PMID 19247629.