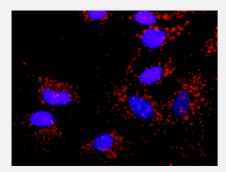
## SMAD2 monoclonal antibody (M17), clone 4D4

Catalog # H00004087-M17 Size 100 ug

## Applications



#### In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between TP53 and SMAD2. HeLa cells were stained with anti-TP53 rabbit purified polyclonal 1:1200 and anti-SMAD2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (37.44 KDa).

Specification	
Product Description	Mouse monoclonal antibody raised against a partial recombinant SMAD2.
Immunogen	SMAD2 (NP_005892, 16 a.a. ~ 119 a.a) partial recombinant protein with GST tag. MW of the GST t ag alone is 26 KDa.
Sequence	LGWKKSAGGSGGAGGGEQNGQEEKWCEKAVKSLVKKLKKTGRLDELEKAITTQNCNTKCVTIP STCSEIWGLSTPNTIDQWDTTGLYSFSEQTRSLDGRLQVSH
Host	Mouse
Reactivity	Human

## 😵 Abnova

#### **Product Information**

Interspecies Antigen Sequence	Rat (98)
lsotype	lgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.44 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 (Recombinant protein)

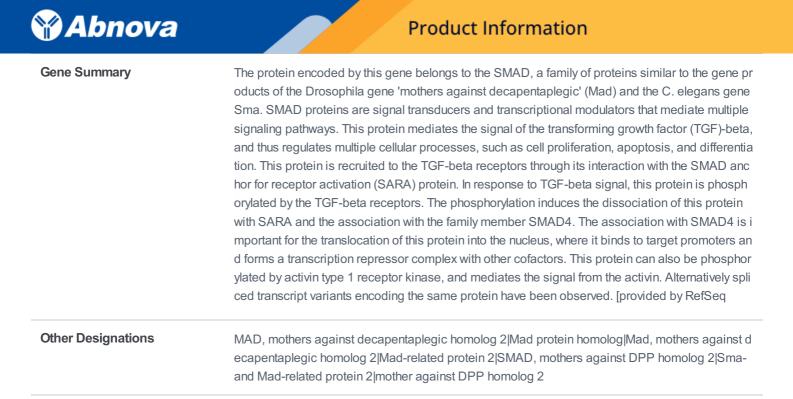
Protocol Download

- ELISA
- In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between TP53 and SMAD2. HeLa cells were stained with anti-TP53 rabbit purified polyclonal 1:1200 and anti-SMAD2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

### Gene Info — SMAD2

Entrez GenelD	<u>4087</u>
GeneBank Accession#	<u>NM_005901</u>
Protein Accession#	<u>NP_005892</u>
Gene Name	SMAD2
Gene Alias	JV18, JV18-1, MADH2, MADR2, MGC22139, MGC34440, hMAD-2, hSMAD2
Gene Description	SMAD family member 2
Omim ID	<u>601366</u>
Gene Ontology	Hyperlink



#### Pathway

- Adherens junction
- Cell cycle
- Colorectal cancer
- Pancreatic cancer
- Pathways in cancer
- <u>TGF-beta signaling pathway</u>
- Wnt signaling pathway

#### Disease

- Adenocarcinoma
- <u>Cleft Lip</u>
- Cleft Palate
- Colitis
- Colorectal Neoplasms
- Esophageal Neoplasms

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#### **Product Information**

- Genetic Predisposition to Disease
- <u>Hypertension</u>
- Inflammatory Bowel Diseases
- Liver Cirrhosis
- <u>Obesity</u>
- Osteoporosis
- Ovarian Failure
- Pancreatic cancer
- Pancreatic Neoplasms
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder