

## Anti-SMAD7 Antibody (3G366)

### Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat)
Molecular Weight:	Theoretical: 46 kDa. Actual: 46 kDa.
Clone:	3G366
Purification:	Protein A purified

### Applications

Verified Activity:	<p>1. Sample: Lane 1: Human Hela cell Lysates Lane 2: Human 293T cell Lysates Primary: Anti-SMAD7 (TMAB-12946) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 46 kDa Observed band size: 46 kDa</p> <p>2. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SMAD7) Monoclonal Antibody, Unconjugated (TMAB-12946) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.</p> <p>3. Paraformaldehyde-fixed, paraffin embedded (Human stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SMAD7) Monoclonal Antibody, Unconjugated (TMAB-12946) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.</p> <p>4. Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SMAD7) Monoclonal Antibody, Unconjugated (TMAB-12946) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.</p>
Application:	WB
Recommended	WB=1:500-2000

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human SMAD7  
Antigen Species: Human  
Gene ID: 4092  
Uniprot ID: O15105

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### Research Background

The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of this gene is induced by TGFBR1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

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