

## Anti-SMAD4 Antibody (1D720)

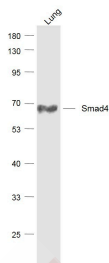
### Product Details

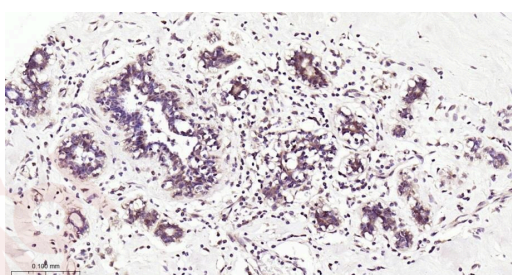
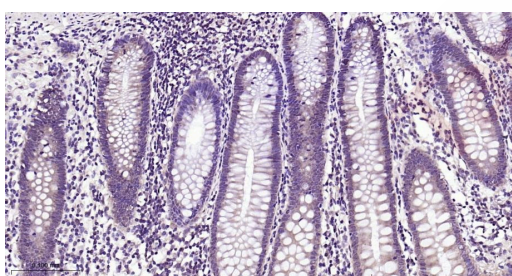
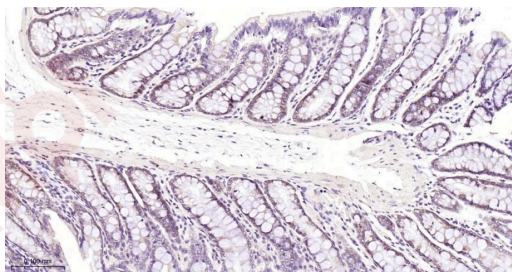
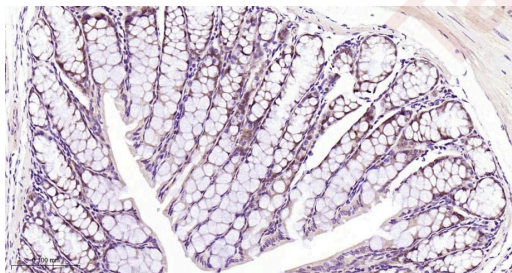
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 60 kDa. Actual: 65 kDa.
Clone:	1D720
Purification:	Protein A purified

### Applications

1. Sample:  
Lung (Mouse) Lysate at 40 µg  
Primary: Anti-Smad4 (TMAB-01741) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 60 kDa  
Observed band size: 60 kDa
2. Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Smad4 Monoclonal Antibody, Unconjugated (TMAB-01741) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Smad4 Monoclonal Antibody, Unconjugated (TMAB-01741) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Smad4 Monoclonal Antibody, Unconjugated (TMAB-01741) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded Human Breast; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Smad4 Monoclonal Antibody, Unconjugated (TMAB-01741) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

Verified Activity:





Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:50-200; IHC-Fr: 1:50-200; IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: A synthesized peptide: human SMAD4

Antigen Species: Human

Gene ID: 4089

Uniprot ID: Q13485

Synonyms: SMAD 4;Deletion Target in Pancreatic Carcinoma 4;hSMAD4;MAD Homolog 4;MADH4;SMAD Family Member 4;DPC4;Mothers Against DPP Homolog 4;SMAD4;Mothers Against Decapentaplegic Homolog 4

Biology Area: Response to hypoxia,Tumor suppressors,Apoptosis,Transcription factors/regulators, Transcription factors,Endothelium,SMADs,Hypoxia,SMADs,Cytoplasmic

Research Background

Smad 4 is a member of the Mothers Against Dpp (MAD)-related family of proteins. So far, eight Smads have been identified and can be divided in 3 subgroups based on their structure and functions; pathway-restricted, common mediator and inhibitory Smad. Smad 4 is the common Smad (co-Smad). Previously identified as the tumor suppressor DPC4 (deleted in pancreatic carcinoma, locus 4), Smad 4 is functionally distinct among the Smad family, and is required for the assembly and transcriptional activation of diverse, Smad-DNA complexes. In contrast to the R-Smads, Smad 4 is not regulated by phosphorylation, but acts as a common mediator of TGF-Beta, activin, and bone morphogenetic protein signaling responses. Smad 4 is frequently inactivated in pancreatic, biliary and colorectal tumors.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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