

Anti-SMAD3 Antibody (50254)

Product Details

| | |
|-------------------|--------------------------------------|
| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat |
| Molecular Weight: | Theoretical: 47 kDa. Actual: 52 kDa. |
| Clone: | 50254 |
| Purification: | Protein G purified |

Applications

1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Smad3) Polyclonal Antibody, Unconjugated (TMAB-01738) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

2. Sample:

A549 (Human) Cell Lysate at 30 µg

Primary: Anti-Smad3 (TMAB-01738) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 52 kDa

Observed band size: 52 kDa

3. Sample:

A431 (Human) Cell Lysate at 30 µg

Primary: Anti-Smad3 (TMAB-01738) at 1/1000 dilution

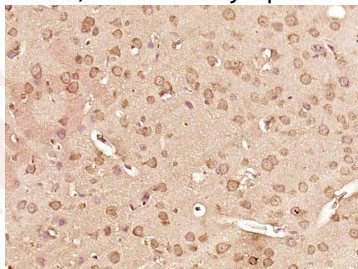
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

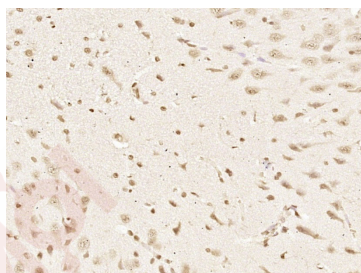
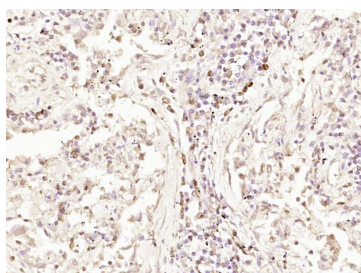
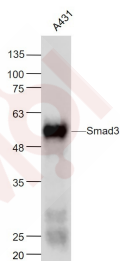
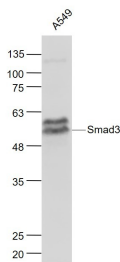
Predicted band size: 52 kDa

Observed band size: 52 kDa

4. Paraformaldehyde-fixed, paraffin embedded (Human lung cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Smad3) Monoclonal Antibody, Unconjugated (TMAB-01738) at 1:800 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Smad3) Monoclonal Antibody, Unconjugated (TMAB-01738) at 1:800 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.





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

Recommended WB: 1:500-1000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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: Recombinant Protein: human Smad3 Protein

Antigen Species: Human

Gene ID: 4088

Uniprot ID: P84022

Synonyms: Mothers against decapentaplegic homolog 3;SMAD3;JV15-2;MADH3;Mothers against DPP homolog 3;hMAD-3;MAD homolog 3;SMAD family member 3 (SMAD 3;Smad3;hSMAD3);Mad3

Biology Area: Response to hypoxia,SMAD family,SMADs,Hypoxia,Cancer,SMADs,Cytoplasmic

Research Background

Smad3 is a 50 kDa member of a family of proteins that act as key mediators of TGF beta superfamily signaling in cell proliferation, differentiation and development. The Smad family is divided into three subclasses: receptor regulated Smads, activin/TGF beta receptor regulated (Smad2 and 3) or BMP receptor regulated (Smad 1, 5, and 8); the common partner, (Smad4) that functions via its interaction to the various Smads; and the inhibitory Smads, (Smad6 and 7). Activated Smad3 oligomerizes with Smad4 upon TGF beta stimulation and translocates as a complex into the nucleus, allowing its binding to DNA and transcription factors. Phosphorylation of the two TGF beta dependent serines 423 and 425 in the C terminus of Smad3 is critical for Smad3 transcriptional activity and TGF beta signaling.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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