SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Recombinant Rabbit Anti-SMAD2&SMAD3 Monoclonal Antibody

**Catalog Number: SLA1029M**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

| | |
|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Monoclonal |
| **Clone No.:** | 12A2 |
| **GeneID:** | 4087 |
| **SWISS:** | Q15796 |
| **Target:** | SMAD2&SMAD3 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human Smad2 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB (1:500-2000)<br>IHC-P (1:200-800)<br>IHC-F (1:200-800)<br>IF (1:200-800)<br>Not yet tested in other applications.<br>Optimal working dilutions must be determined by the end user. |
| **Reactivity:** | Human,Mouse,Rat |
| **Predicted MW.:** | 52 kDa |
| **Subcellular Location:** | Nucleus |
| **Background:** | The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation.<br>This protein is recruited to the TGF-beta receptors through its interaction with |

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| | the SMAD anchor for receptor activation (SARA) protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4.<br>The association with SMAD4 is important for the translocation of this protein into the nucleus, where it binds to target promoters and forms a transcription repressor complex with other cofactors. This protein can also be phosphorylated by activin type 1 receptor kinase, and mediates the signal from the activin. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, May 2012] |

## [ VALIDATION IMAGES ]

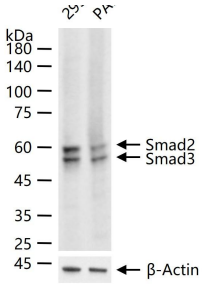



Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with Smad2&Smad3 monoclonal antibody, unconjugated (SLA1029M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

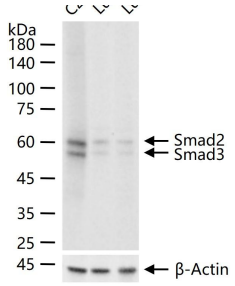



Figure 2. 25 ug total protein per lane of various lysates (see on figure) probed with Smad2&Smad3 monoclonal antibody, unconjugated (SLA1029M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

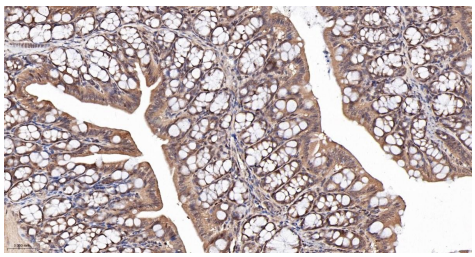


Figure 3. Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad2&Smad3 Monoclonal Antibody, Unconjugated (SLA1029M) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

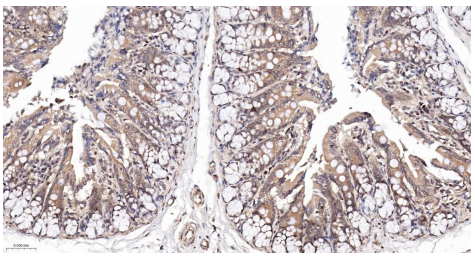


Figure 4. Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad2&Smad3 Monoclonal Antibody, Unconjugated (SLA1029M) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

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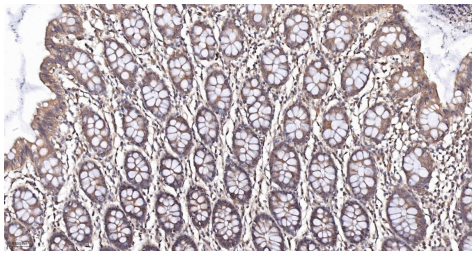


Figure 5. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad2&Smad3 Monoclonal Antibody, Unconjugated (SLA1029M) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

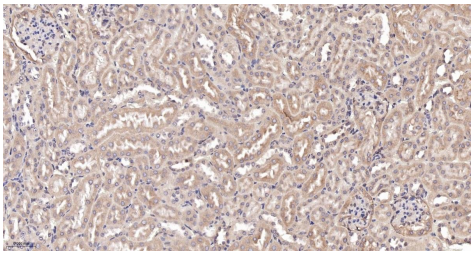


Figure 6. Paraformaldehyde-fixed, paraffin embedded Mouse Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad2&Smad3 Monoclonal Antibody, Unconjugated (SLA1029M) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

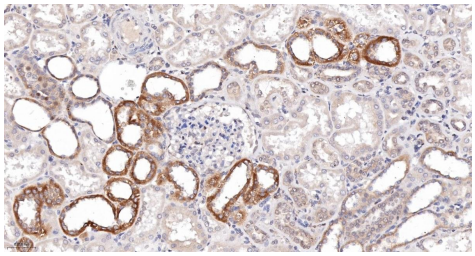


Figure 7. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad2&Smad3 Monoclonal Antibody, Unconjugated (SLA1029M) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

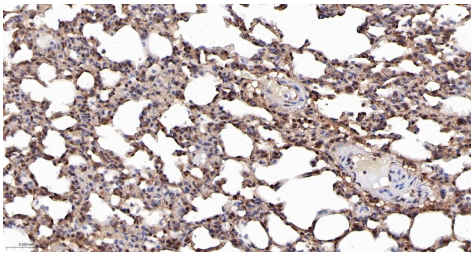


Figure 8. Paraformaldehyde-fixed, paraffin embedded Rat Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad2&Smad3 Monoclonal Antibody, Unconjugated (SLA1029M) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

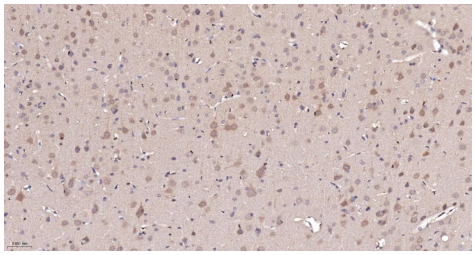


Figure 9. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad2&Smad3 Monoclonal Antibody, Unconjugated (SLA1029M) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

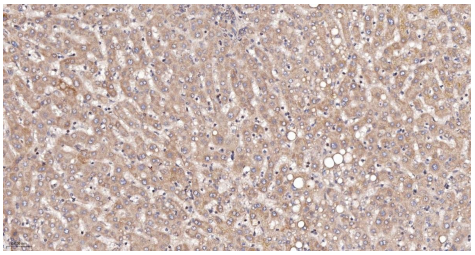


Figure 10. Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad2&Smad3 Monoclonal Antibody, Unconjugated (SLA1029M) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

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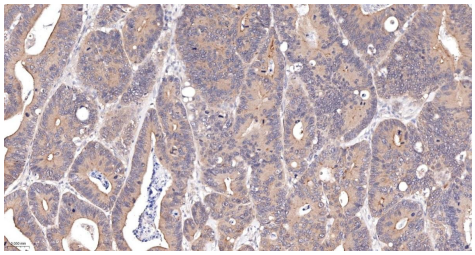


Figure 11. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad2&Smad3 Monoclonal Antibody, Unconjugated (SLA1029M) at 1:500 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.
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