Anti-SMAD1 Picoband™ Antibody

Catalog Number: PB9395

About SMAD1

SMADs are proteins that modulate the activity of transforming growth factor beta ligands. The SMADs, often in complex with other SMADs/CoSMAD, act as transcription factors that regulate the expression of certain genes. It was concluded that targeted ubiquitination of SMADs may serve to control both embryonic development and a wide variety of cellular responses to TGF-beta signals. R-Smads or receptor regulated Smads are a class of proteins that include SMAD1, SMAD2, SMAD3, SMAD5, and SMAD8. In response to signals by the TGF-β superfamily of ligands these proteins associate with receptor kinases and are phosphorylated at an SSXS motif at their extreme C-terminus. These proteins then typically bind to the common mediator Smad or co-SMAD SMAD4.

Overview

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Anti-SMAD1 Picoband™ Antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactive Species</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Description</td>
<td>Rabbit IgG polyclonal antibody for Mothers against decapentaplegic homolog 1(SMAD1) detection. Tested with WB in Human;Mouse;Rat.</td>
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<tr>
<td>Conjugate</td>
<td>No</td>
</tr>
<tr>
<td>Application</td>
<td>WB</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Formulation</td>
<td>Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.</td>
</tr>
<tr>
<td>Storage Instructions</td>
<td>At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.</td>
</tr>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Uniprot ID</td>
<td>Q15797</td>
</tr>
</tbody>
</table>

Technical Details

| Immunogen                  | A synthetic peptide corresponding to a sequence in the middle region of human SMAD1 (240-270aa QPMDTNMMAPPLPSEINRGDVQAVAYEKPKH), different from the related mouse sequence by two amino acids, and from the related rat sequence by five amino acids. |
| Predicted Reactive Species | Hamster                      |
### Recommended Detection Systems

Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

### Cross Reactivity

No cross reactivity with other proteins.

### Isotype

N/A

### Form

Lyophilized

### Concentration

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

### Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

### Purification

Immunogen affinity purified.

### Suggested Dilutions

Western blot, 0.1-0.5μg/ml, Human, Mouse, Rat

For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

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#### Anti-SMAD1 Picoband™ Antibody (PB9395) Images

![Anti-SMAD1 Picoband antibody, PB9395, Western blotting](image)

Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug
Lane 2: Mouse Cardiac Muscle Tissue Lysate at 50ug
Lane 3: Rat Skeletal Muscle Tissue Lysate at 50ug
Lane 4: Mouse Skeletal Muscle Tissue Lysate at 50ug
Lane 5: 293T Whole Cell Lysate at 40ug
Lane 6: MCF-7 Whole Cell Lysate at 40ug
Lane 7: HELA Whole Cell Lysate at 40ug

Predicted bind size: 52KD
Observed bind size: 52KD

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