

## Phospho-Smad1/5/9 (Ser463/Ser465) Rabbit Polyclonal Antibody

### Catalog #: EAB10066

| Host/Isotype | Clonality  | Applications | MW (kDa) | Reactivity        |
|--------------|------------|--------------|----------|-------------------|
| Rabbit IgG   | Polyclonal | WB           | 52       | Human, Mouse, Rat |

### Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**WB**(Western Blotting) 1:500-2000

### Product Information

|                       |  |
|-----------------------|--|
| <b>Conjugate</b>      | Unconjugate  |
| <b>Specificity</b>    | Phospho-Smad1/5/9 (Ser463/Ser465) Rabbit Polyclonal Antibody detects endogenous levels of Smad1/5/9 only when phosphorylated at Ser463/Ser465. |
| <b>Purification</b>   | Affinity purification  |
| <b>Concentration</b>  | 1mg/ml   |
| <b>Format</b>         | Liquid   |
| <b>Formulation</b>    | In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol   |
| <b>Shipping</b>       | Gel Pack   |
| <b>Storage</b>        | Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks         |
| <b>UniProt ID</b>     | <a href="#">Q15797</a> , <a href="#">Q99717</a> , <a href="#">O15198</a>   |
| <b>Entrez-Gene Id</b> | <a href="#">4086</a> , <a href="#">4090</a> , <a href="#">4093</a>   |

### Product Description

The protein encoded by SMAD1/SMAD5/SMAD8/SMAD9 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 signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed.

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