

Anti-Phospho-Smad1 (Ser465) Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Chicken,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 51 kDa. Actual: 63 kDa.
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Histone H3 (mono methyl K4)) Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

2. Sample:

Verified Activity:	Lane 1: Human Hela cell (UV) Lysates
	Lane 2: Human A431 cell (UV) Lysates
	Lane 3: Human U251 cell (UV) Lysates
	Lane 4: Human 293T cell (TPA) Lysates
	Primary: Anti-Phospho-Smad1 (TMAB-11290) at 1/1000 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 51 kDa
	Observed band size: 63 kDa

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

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human Smad1 around the phosphorylation site of Ser465
Antigen Species:	Human
Gene ID:	4086
Uniprot ID:	Q15797

Research 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 signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including

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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. [provided by RefSeq].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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