

Recombinant Phospho-SMAD2 (Ser465, 467) Monoclonal Antibody

catalog number: AN300146L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Reactivity Human

Immunogen A synthetic peptide corresponding to the residues around (Ser465, 467) of Human

Phospho-SMAD2

Host Rabbit
Isotype IgG
Clone A1260
Purification Protein A

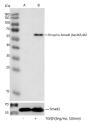
Buffer 10 mM sodium HEPES, 150 mM NaCl, 100 µg/mL protein protectant, 50% glycerol,

pH 7.5

Applications Recommended Dilution

WB 1:500-1:2000

Data



Western blot analysis of extracts from serum-starved Hela,

Western blot analysis of extracts from serum-starved Hela, untreated(line A) or treated with TGF beta 1 (5 ng/mL, 120min; +)(line B), using Phospho-SMAD2 (Ser465, 467) Monoclonal Antibody at 1:1000 dilution (upper) or Anti-SMAD2 Monoclonal Antibody at 1:100000 dilution (lower).

Observed-MW:60 kDa Calculated-MW:52 kDa

SMAD2 (Ser465, 467) Monoclonal Antibody at 1:1000 dilution.

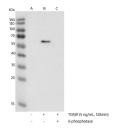
Observed-MW:60 kDa

Calculated-MW:52 kDa

untreated (line A); treated with TGFβ1 (5 ng/mL, 120 min),

without peptide (line B) or antigen-specific phosphopeptide

(line C) or antigen-specific peptide (line D) using Phospho-



Western blot analysis of extracts from serum-starved Hela, untreated (line A); treated with TGF β 1 (5 ng/mL, 120min; +); treated with TGF β 1 and λ -phosphatase (line C) using Phospho-SMAD2 (Ser465, 467) Monoclonal Antibody at 1:1000 dilution.

Observed-MW:60 kDa Calculated-MW:52 kDa

Preparation & Storage

For Research Use Only

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 Web: www.elabscience.com
 Email: techsupport@elabscience.com

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Storage This antibody can be stored at 2°C-8°C for one month without detectable loss of

activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

Shipping lce bag

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. This protein is recruited to the TGF-beta receptors through its interaction with 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. 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 2 receptor kinase, and mediates the signal from the activin. Alternatively spliced transcript variants have been observed for this gene.

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Rev. V1.2