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Phospho-Smad2-S465/467 + Smad3-S423/425 Rabbit pAb

Catalog No.: AP0548SP

63 Publications

Basic Information

Observed MW
52 kDa/60 kDa

Calculated MW
48 kDa/52 kDa/25 kDa/35 kDa/43 kDa

Category
Polyclonal Antibodies

Applications
WB, ELISA

Cross Reactivity
Human, Mouse, Rat

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 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]

Recommended Dilutions

WB	1:5000 - 1:20000

ELISA

Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000),a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
4087/4088

Swiss-Prot
Q15796/P84022

Immunogen
This information is considered to be commercially sensitive.

Synonyms
HSPC193; HsT17436; JV15-2; LDS1C; LDS3; MADH3; Phospho-Smad2-S465/467 + Smad3-S423/425

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Product Information

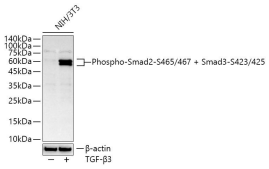
Source
Rabbit

Isotype
IgG

Purity
Affinity purification

Storage
Store at -20℃

Validation Data



Western blot analysis of lysates from NIH/3T3 cells using Phospho-Smad2-S465/467 + Smad3-S423/425 Rabbit pAb (AP0548SP) at 1:20000 dilution incubated overnight at 4℃. NIH/3T3 cells were treated with TGF-β3 (50 ng/mL) at 37℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.