

Recombinant Phospho-SMAD2 (Ser465, 467) Monoclonal Antibody

catalog number: AN300146L

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

Description

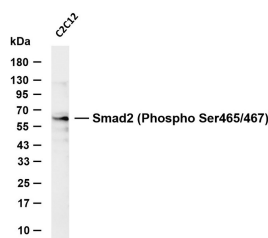
Reactivity	Human;Mouse;Rat
Immunogen	A synthetic peptide corresponding to the residues around (Ser465, 467) of Human Phospho-SMAD2
Host	Rabbit
Isotype	IgG
Clone	A1260
Purification	Protein A
Buffer	10 mM sodium HEPES, 150 mM NaCl, 100 µg/mL protein protectant, 50% glycerol, pH 7.5

Applications

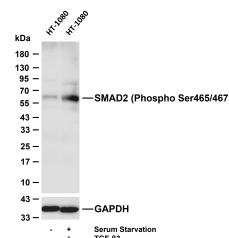
Recommended Dilution

WB	1:500-1:2000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Smad2 (Phospho Ser465/467) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: C2C12 serum was starved overnight and treated with TGF-β3 (10ng/ml) for 20 minutes. Predicted band size: 52kDa Observed band size: 60kDa



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-SMAD2 (Phospho Ser465/467) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HT-1080 Lane 2: HT-1080 serum was starved overnight and treated with TGF-β3(10ng/ml) for 30 minutes Predicted band size: 52kDa Observed band size: 60kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

For Research Use Only

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Rev. V1.4

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)- β , and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF- β receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF- β signal, this protein is phosphorylated by the TGF- β 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