Recombinant Phospho-SMAD2 (Ser465, 467) Monoclonal Antibody

catalog number: **AN300146L**

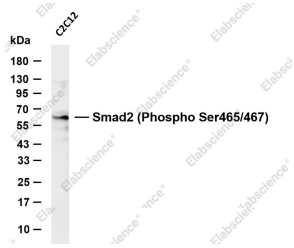
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

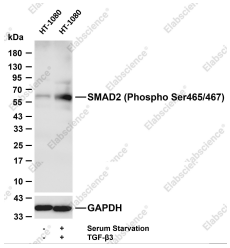
Reactivity	Human;Mouse;Rat
Immunogen	A synthetic peptide corresponding to the residues around (Ser465, 467) of Human Phospho-SMAD2
Host	Rabbit
Isotype	Rabbit IgG
Clone	C170106
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

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

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