

## Product Data Sheet: Phospho-SMAD2 SER 465/467/SMAD3 Ser423/425)

Cat. No: MAB-94275
Conjugate: Unconjugated

Size: 100 ul

Clone: D27F4

Concentration: 1mg/ml

Host: Rb

Isotype: IgG

Reactivity: Hu

**Applications:** WB 1:1000 **Molecular Weight:** 52, 60 kDa

**Purification:**Monoclonal antibody is produced by immunizing animals with a synthetic peptide

corresponding to residues surrounding Ser465/467 of human Smad2 protein.

Members of the Smad family of signal transduction molecules are components of a critical intracellular pathway that transmit TGF- $\beta$  signals from the cell surface into the nucleus. Three distinct classes of Smads have been defined: the receptor-regulated Smads (RSmads), which include Smad1, 2, 3, 5, and 8; the common-mediator Smad (co-Smad), Smad4; and the antagonistic or inhibitory Smads (I-Smads), Smad6 and 7 (1-5). Activated type I receptors associate with specific R-Smads and phosphorylated R-Smad dissociates from the recenter and forms a

**Background:** motif. The phosphorylated R-Smad dissociates from the receptor and forms a

heteromeric complex with the co-Smad (Smad4), allowing translocation of the complex to the nucleus. Once in the nucleus, Smads can target a variety of DNA binding proteins to regulate transcriptional responses (6-8). Phospho-Smad2 (Ser465/467)/ Smad3 (Ser423/425) (D27F4) Rabbit mAb recognizes endogenous levels of Smad2 protein when phosphorylated at Ser465 and Ser467. This

antibody also recognizes endogenous levels of Smad3 protein when

phosphorylated Ser422 only or at both Ser423 and Ser425.

Form: liquid

**Buffer:** PBS with 0.02% sodium azide, 50% glycerol, pH7.5

**Storage:** Store at -20°C. Avoid freeze / thaw cycles.

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