

Product Data Sheet: Phospho-Smad3-S423/S425

Cat. No: MAB-94274
Conjugate: Unconjugated

Size: 100 ul

Clone: C25A9

Concentration: 1mg/ml

Host: Rb

Isotype: IgG

Reactivity: Hu,Ms, Rt

Applications: WB 1:1000,IHC(P) 1:50-100

Molecular Weight: 52 kDa

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

phosphopeptide corresponding to residues surrounding Ser423/425 of Smad3.

Members of the Smad family of signal transduction molecules are components of a critical intracellular pathway that transmits TGF-□signals from the cell surface

into the nucleus. Three distinct classes of Smads have been defined: the receptor-regulated Smads (R-Smads), 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 receptor and forms a

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). Following stimulation by TGF-[], Smad2 and Smad3 become phosphorylated at carboxyl terminal serine

residues (Ser465 and 467 on Smad2; Ser423 and 425 on Smad3) by TGF-

□□Receptor I. Phosphorylated Smad 2/3 can complex with Smad4 and translocate to the nucleus to regulate gene expression (9-11).Phospho-Smad3 (Ser423/425) (C25A9) Rabbit mAb detects endogenous levels of Smad3 when phosphorylated at Ser423/425. This antibody does not cross-react with other family members.

Form: liquid

Background:

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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

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