Data Sheet (Cat.No.TMAC-03268)

Anti-Phospho-SMAD2 (Ser255) Antibody (3R237)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 52 kDa.
Clone:	3R237
Purification:	ProA affinity purified

Applications

Application:	IHC,IP,WB
Recommended	WB: 1:1000; IHC: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized phosphopeptide: human Smad2 around the phosphorylation site of Ser255
Antigen Species:	human
Uniprot ID:	Q15796
Synonyms:	MADH2;CHTD8;p-SMAD2 (S255);JV18;SMAD2 (p-S255);MADR2;JV18-1;SMAD2 (p-Ser255); hSMAD2;Phospho-SMAD2 (S255);hMAD-2;p-SMAD2 (Ser255);SMAD2;LDS6

Research Background

Smad proteins, the mammalian homologs of the Drosophila mothers against decapentaplegic (Mad), have been implicated as downstream effectors of TGFβ/BMP signaling. Smad1 (also designated Madr1 or JV4-1) and Smad5 are effectors of BMP-2 and BMP-4 function, while Smad2 (also designated Madr2 or JV18-1) and Smad3 are involved in TGFβ and Activin-mediated growth modulation. Smad4 (also designated DPC4) has been shown to mediate all of the above activities through interaction with various Smad family members. Smad6 and Smad7 regulate the response to Activin/TGFβ signaling by interfering with TGFβ-mediated phosphorylation of other Smad proteins.

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