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Anti-Smad2 Rabbit mAb [45B16]

Catalog No.: A52306

Basic Information

Catalog No. (Cat.No.)	A52306
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IP,IF,ELISA
Synonyms	Smad2,SMAD2,Mothers against DPP homolog 2,MAD homolog 2,DMH2

Product Information

Target	Smad2
Molecular Weight(Calculated)	58 kDa
Molecular Weight(Observed)	58 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	45B16
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	SMAD family member-2
Gene Name	*SMAD2*
Domain	NA
Background	SMAD2 (Smad2) is receptor-activated R-Smad for TGF-β/Activin-signaling transducing TGF-β-superfamily inputs to control proliferation, differentiation, EMT and apoptosis. Upon TGF-β-receptor engagement, type-I receptor kinase phosphorylates Smad2 C-terminal SSXS motif. Activated Smad2 heterocomplexes with Smad4 and shuttles into nucleus, associating with transcriptional co-activators/co-repressors to govern target-gene expression. In resting cells Smad2 predominantly resides in cytosol; TGF-β challenge triggers nuclear translocation. Smad2 pathway exerts tumor-suppressive effects in early-stage neoplasia yet drives EMT-metastasis in advanced tumors.