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Anti-Smad3 Mouse mAb [86F19]

Catalog No.: A33115

Basic Information

Catalog No. (Cat.No.)	A33115
Host species	Mouse
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,ICC/IF,IF-P,ELISA
Synonyms	Smad3,LDS3,mad3,LDS1C,MADH3,JV15-2,hMAD-3,hSMAD3,HSPC193,HsT17436

Product Information

Target	Smad3
Molecular Weight(Calculated)	48 kDa
Molecular Weight(Observed)	NA
Isotype	IgG
Conjugation	NA
Concentration	1 mg/ml
Clonality	Monoclonal
Clone No.	86F19
RRID	NA
Storage buffer	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	1:1000-1:2000
IHC	1:200-1:2000
ICC/IF	1:100-1:500
IF-P	1:200-1:2000
ELISA	1:5000-1:20000

Target Information

Protein Name	Mothers against decapentaplegic homolog-3
Gene Name	*SMAD3*
Domain	Full length
Background	SMAD3 (Smad3) is TGF-β-pathway receptor-activated R-Smad highly homologous to Smad2, transducing TGF-β and Activin signals for cell-cycle arrest, EMT, fibrosis and immune regulation. TGF-β type-I receptor phosphorylates C-terminal SSXS motif of Smad3. Activated Smad3 heterodimerizes with Smad4, translocates to nucleus and binds target-gene promoters to execute TGF-β transcriptional responses. Smad3 shares partial redundancy with Smad2 yet exhibits distinct tissue preference and target-gene selectivity, and is central to organ fibrogenesis. It mediates anti-proliferative effects in early-stage tumors and promotes invasion-metastasis at advanced stages.