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Anti-Smad1 Rabbit mAb [76C06]

Catalog No.: A52304

Basic Information

Catalog No. (Cat.No.)	A52304
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Synonyms	Smad1,SMAD1,MAD homolog 1,DPP homolog 1,MAD1

Product Information

Target	Smad1
Molecular Weight(Calculated)	52 kDa
Molecular Weight(Observed)	52 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	76C06
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	1:2000-1:10000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Mothers against decapentaplegic homolog-1
Gene Name	*SMAD1*
Domain	NA
Background	SMAD1 (SMAD family member 1) belongs to BMP-pathway receptor-activated R-Smad family transducing intracellular BMP signals governing osteogenic differentiation, proliferation and apoptosis. Upon BMP-receptor activation, Smad1 is phosphorylated at C-terminal SSXS motif. Phospho-Smad1 heteroligomerizes with Smad4 and translocates into nucleus to bind regulatory elements and drive BMP-dependent transcriptional responses controlling mesenchymal osteogenic commitment and embryogenesis. Smad1 activity is tightly restrained by ubiquitination and de-phosphorylation. Pathway dysregulation links to bone-metabolic disorders and malignancy.