

Anti-Smad6 antibody



Description	Rabbit polyclonal to Smad6.
Model	STJ95703
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human Smad6.
Immunogen Region	Internal
Gene ID	4091
Gene Symbol	SMAD6
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000
Specificity	Smad6 Polyclonal Antibody detects endogenous levels of Smad6 protein.
Tissue Specificity	Ubiquitous in various organs, with higher levels in lung. Isoform B is up-regulated in diseased heart tissue.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Mothers against decapentaplegic homolog 6 MAD homolog 6 Mothers against DPP homolog 6 SMAD family member 6 SMAD 6 Smad6 hSMAD6
Molecular Weight	62 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6772OMIM:602931
Alternative Names	Mothers against decapentaplegic homolog 6 MAD homolog 6 Mothers against DPP homolog 6 SMAD family member 6 SMAD 6 Smad6 hSMAD6
Function	Acts as a mediator of TGF-beta and BMP antiinflammatory activity. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and NF-kappa-B-mediated expression of proinflammatory genes. May block the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor-activated SMAD1-binding. Binds to regulatory elements in target promoter regions.
Cellular Localization	Nucleus
Post-translational Modifications	Phosphorylated by BMP type 1 receptor kinase and by PRKX. Monoubiquitinated at Lys-173 by the E2/E3 hybrid ubiquitin-protein ligase UBE2O, leading to reduced binding affinity for the activated BMP type I receptor ACVR1/ALK2, thereby enhancing BMP7 and regulating adipocyte differentiation . Ubiquitinated by WWP1 . Ubiquitinated by RNF165, promoting proteasomal degradation, leading to enhance the BMP-Smad signaling . Arginine methylation by PRMT1, which is recruited by BMPR2, initiates BMP-Induced signaling and induces dissociation from the BMPR1B receptor at the cell surface leading to derepress downstream Smad1/Smad5 signaling.