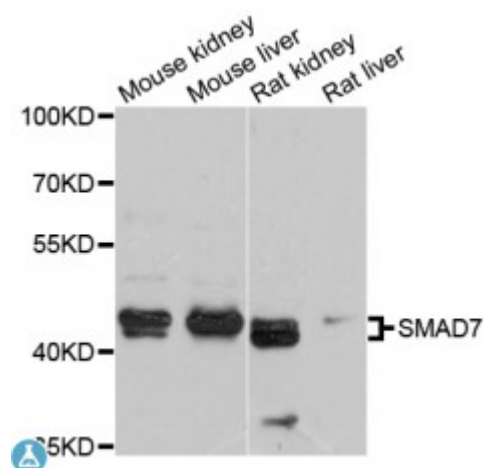


Anti-SMAD7 Antibody



Description

The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of this gene is induced by TGFBR1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene.

Model	STJ114223
Host	Rabbit
Reactivity	Mouse, Rat
Applications	WB
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human SMAD7 (NP_005895.1).
Gene ID	4092
Gene Symbol	SMAD7
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Ubiquitous with higher expression in the lung and vascular endothelium
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Mothers against decapentaplegic homolog 7 MAD homolog 7 Mothers against DPP homolog 7 Mothers against decapentaplegic homolog 8 MAD homolog 8

	Mothers against DPP homolog 8 SMAD family member 7 SMAD 7 Smad7 <
Molecular Weight	46.426 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:6773OMIM:602932Reactome:R-HSA-201451
Alternative Names	Mothers against decapentaplegic homolog 7 MAD homolog 7 Mothers against DPP homolog 7 Mothers against decapentaplegic homolog 8 MAD homolog 8 Mothers against DPP homolog 8 SMAD family member 7 SMAD 7 Smad7 <
Function	Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members
Cellular Localization	Nucleus,
Post-translational Modifications	Phosphorylation on Ser-249 does not affect its stability, nuclear localization or inhibitory function in TGFB signaling

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