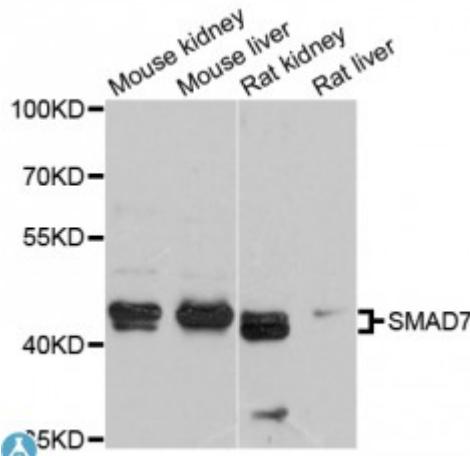




## Anti-SMAD7 Antibody



### 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.

<b>Model</b>	STJ114223
<b>Host</b>	Rabbit
<b>Reactivity</b>	Mouse, Rat
<b>Applications</b>	WB
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human SMAD7 (NP_005895.1).
<b>Gene ID</b>	<a href="#">4092</a>
<b>Gene Symbol</b>	<a href="#">SMAD7</a>
<b>Dilution range</b>	WB 1:500 - 1:2000
<b>Tissue Specificity</b>	Ubiquitous with higher expression in the lung and vascular endothelium
<b>Purification</b>	Affinity purification
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	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 <
<b>Molecular Weight</b>	46.426 kDa
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Storage Instruction</b>	Store at -20C. Avoid freeze / thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:6773</a> <a href="#">OMIM:602932</a> <a href="#">Reactome:R-HSA-201451</a>
<b>Alternative Names</b>	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 <
<b>Function</b>	Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members
<b>Cellular Localization</b>	Nucleus,
<b>Post-translational Modifications</b>	Phosphorylation on Ser-249 does not affect its stability, nuclear localization or inhibitory function in TGFB signaling

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