

# Anti-SMAD7 (AcK70) Antibody

Rabbit polyclonal antibody to SMAD7 (AcK70)

Catalog # AP61376

## Product Information

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Application	WB
Primary Accession	<a href="#">O15105</a>
Other Accession	<a href="#">O35253</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46426

## Additional Information

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Gene ID	4092
Other Names	MADH7; MADH8; 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; hSMAD7
Target/Specificity	Recognizes endogenous levels of SMAD7 (AcK70) protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	SMAD7
Synonyms	MADH7, MADH8
Function	Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members; has been shown to inhibit TGF-beta (Transforming growth factor) and activin signaling by associating with their receptors thus preventing SMAD2 access (PubMed: <a href="#">21791611</a> ). Functions as an adapter to recruit SMURF2 to the TGF-beta receptor complex. Also acts by recruiting the PPP1R15A-PP1 complex to TGFBR1, which promotes its dephosphorylation. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.

**Cellular Location**

Nucleus. Cytoplasm. Note=Interaction with NEDD4L or RNF111 induces translocation from the nucleus to the cytoplasm (PubMed:16601693). TGF-beta stimulates its translocation from the nucleus to the cytoplasm. PDPK1 inhibits its translocation from the nucleus to the cytoplasm in response to TGF-beta (PubMed:17327236)

**Tissue Location**

Ubiquitous with higher expression in the lung and vascular endothelium

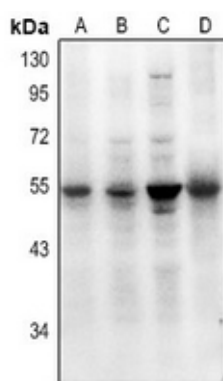
**Background**

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KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SMAD7 (Ack70). The exact sequence is proprietary.

**Images**

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Western blot analysis of SMAD7 (Ack70) expression in LOVO (A), HEK293T (B), A549 (C), mouse lung (D) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.