www.antibodiesinc.com
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530-758-4400

PRODUCT DATASHEET

Anti-SMAD7 (N-terminal region) Antibody

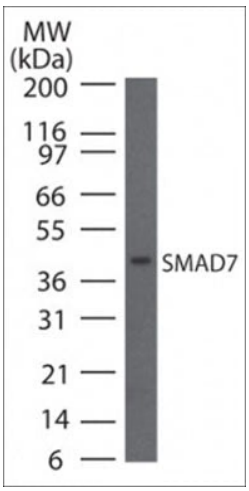
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:SP4901)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	SMAD7
Host Species	Rabbit
Format	Protein G Purified
Physical State	Liquid
Buffer	PBS + 0.05% BSA and 0.05% NaN3
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:500 ICC: 1:50
Species Reactivity	Frog, Human, Mouse, Rat
Immunogen	This antibody was raised against amino acids from the N-terminal region of human SMAD7. This sequence is 100% or highly conserved between human and multiple species.
Specificity	This antibody detects SMAD7 at 46 kDa* on SDS-PAGE immunoblots of human Jurkat cells and mouse C2C12. The antibody can used for western blot and immunohistochemistry.
Molecular Weight	46
Quality Control	Western blots performed on each lot.
Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage) upon arrival and stored long term at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles. Stable for at least 1 year.

UniProt ID	O15105 UniProt Summary: 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. 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.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	4092

Product Images



Western blot analysis of SMAD7 in human HepG2 cells. The blot was probed with rabbit polyclonal SMAD7 antibody (SP4901) at 1:250.