

# Phospho-Smad1 (Ser463/Ser465) Rabbit mAb

Catalog # AP76366

## Product Information

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<b>Application</b>	WB, IP
<b>Primary Accession</b>	<a href="#">Q15797</a>
<b>Reactivity</b>	Human, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Calculated MW</b>	52260

## Additional Information

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<b>Gene ID</b>	4086
<b>Other Names</b>	SMAD1
<b>Dilution</b>	WB~~1/500-1/1000 IP~~N/A
<b>Format</b>	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	SMAD1 ( <a href="#">HGNC:6767</a> )
<b>Synonyms</b>	BSP1, MADH1, MADR1
<b>Function</b>	Transcriptional modulator that plays a role in various cellular processes, including embryonic development, cell differentiation, and tissue homeostasis (PubMed: <a href="#">9335504</a> ). Upon BMP ligand binding to their receptors at the cell surface, is phosphorylated by activated type I BMP receptors (BMPRIs) and associates with SMAD4 to form a heteromeric complex which translocates into the nucleus acting as transcription factor (PubMed: <a href="#">33667543</a> ). In turn, the hetero-trimeric complex recognizes cis-regulatory elements containing Smad Binding Elements (SBEs) to modulate the outcome of the signaling network (PubMed: <a href="#">33667543</a> ). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1. Positively regulates BMP4-induced expression of odontogenic development regulator MSX1 following IPO7-mediated nuclear import (By similarity).
<b>Cellular Location</b>	Cytoplasm. Nucleus Note=Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with SMAD4 (PubMed:15647271). Co-localizes with LEMD3 at the nucleus inner membrane (PubMed:15647271). Exported

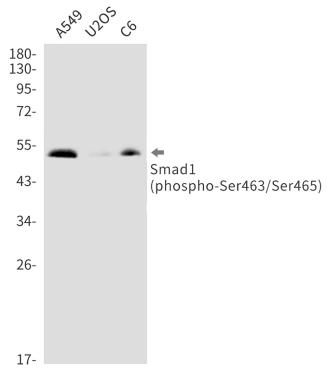
from the nucleus to the cytoplasm when dephosphorylated (By similarity)  
{ECO:0000250 | UniProtKB:P70340, ECO:0000269 | PubMed:15647271}

## Tissue Location

Ubiquitous. Highest expression seen in the heart and skeletal muscle

## Images

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