

# Phospho-Smad1 (Ser463/Ser465) Rabbit mAb

Catalog # AP76366

## Product Information

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

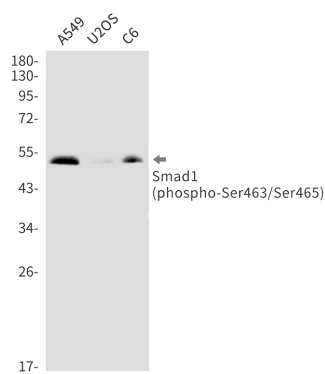
## Additional Information

Gene ID	4086
Other Names	SMAD1
Dilution	WB~~1/500-1/1000 IP~~N/A
Format	Liquid

## Protein Information

Name	SMAD1
Synonyms	BSP1, MADH1, MADR1
Function	<p>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 (BMPRI) 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).</p>
Cellular Location	<p>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}</p>
Tissue Location	Ubiquitous. Highest expression seen in the heart and skeletal muscle

# Images



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