Smad2/3 (Acetyl Lys420/378) Rabbit pAb (AR20027)

Key Features

Host Species:	Rabbit
Reactivity:	Human,Mouse,Rat
Applications:	WB,IHC
Isotype:	IgG
MW:	55kD (Observed)

Recommended Dilution Ratios

WB:	1：500-2000
IHC:	1：50-300

Storage

-15°C to -25°C/1 year (Do not lower than -25°C)

Basic Information

Clonality	Polyclonal

Immunogen Information

Specificity	This antibody detects endogenous levels of Smad2/3 only when acetylated at Human:K420/378, Mouse:K420/378, Rat:K420/378.This antibody does not recognize acetylated at other sites.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):FVkGW

Target Information

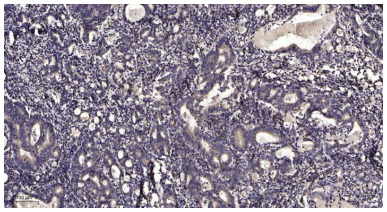
Gene name	SMAD2 MADH2 MADR2
Protein Name	Smad2/3 (Acetyl Lys420/378)

Organism	Gene ID	UniProt ID
Human	4088; 4087	Q15796; P84022

	Mouse	17126	Q62432
	Rat	29357; 25631	O70436; P84025

Cellular Localization	Cytoplasm . Nucleus . Cytoplasmic and nuclear in the absence of TGF-beta. On TGF-beta stimulation, migrates to the nucleus when complexed with SMAD4 (PubMed:9865696, PubMed:21145499). On dephosphorylation by phosphatase PPM1A, released from the SMAD2/SMAD4 complex, and exported out of the nucleus by interaction with RANBP1 (PubMed:16751101, PubMed:19289081). Localized mainly to the nucleus in the early stages of embryo development with expression becoming evident in the cytoplasm at the blastocyst and epiblast stages (By similarity).
Tissue specificity	Expressed at high levels in skeletal muscle, endothelial cells, heart and placenta.

Validation Data



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min)

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