

Smad2/3 (Acetyl Lys19) Rabbit pAb(AR20028)

Key Features

Host Species:	Rabbit
Reactivity:	Human,Mouse,Rat
Applications:	IHC,IF,WB
Isotype:	IgG
MW:	60kD (Observed)

Recommended Dilution Ratios

WB:	1: 500-2000
IHC:	1: 50-200
IF:	1: 50-200

Storage

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

Basic Information

Clonality	Polyclonal
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Immunogen Information

Specificity	This antibody detects endogenous acetyl levels of Smad2/3 (Acetyl-Lys19) at Human:K19, Mouse:K19, Rat:K19. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):LGWkK
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Target Information

Gene name	Smad2/3 (Acetyl-Lys19)
Protein Name	Smad2/3 (Acetyl-Lys19)

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

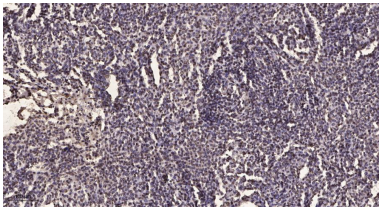
Cellular Localization

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 brain tumor. 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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