Smad2/3 (Phospho Thr8) Rabbit pAb(AR20029)

Key Features

Host Species:	Rabbit
Reactivity:	Human,Mouse,Rat,Pig
Applications:	WB,IF,ELISA
Isotype:	IgG
MW:	48kD (Observed)

Recommended Dilution Ratios

WB:	1：500-2000
IF/ICC:	1：100-500
ELISA:	1：5000-20000

Storage

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

Basic Information

Clonality	Polyclonal

Immunogen Information

Specificity	Phospho-Smad2/3 (T8) Polyclonal Antibody detects endogenous levels of Smad2/3 protein only when phosphorylated at T8.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):PFtPP

Target Information

Gene name	SMAD2/SMAD3
Protein Name	Mothers against decapentaplegic homolog 2/3

Organism	Gene ID	UniProt ID
Human	4087; 4088	Q15796; P84022
Mouse	17126; 17127	
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.

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