Smad3 Rabbit pAb(AR20030)

Key Features

Host Species:	Rabbit
Reactivity:	Human,Mouse,Rat
Applications:	IF,WB,IHC,ELISA
Isotype:	IgG
MW:	50kD (Observed)

Recommended Dilution Ratios

WB:	1：500-2000
IHC:	1：100-300
IF:	1：50-200
ELISA:	1：10000

Not yet tested in other applications

Storage

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

Basic Information

Clonality: Polyclonal

Immunogen Information

Specificity: Smad3 Polyclonal Antibody detects endogenous levels of Smad3 protein.

Target Information

Gene name: SMAD3 MADH3

Protein Name: Mothers against decapentaplegic homolog 3

Organism	Gene ID	UniProt ID
Human	4088	P84022
Mouse	17127	Q8BUN5
Rat	25631	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:15799969, PubMed:21145499). Through the action of the phosphatase PPM1A, released from the

	SMAD2/SMAD4 complex, and exported out of the nucleus by interaction with RANBP1 (PubMed:16751101, PubMed:19289081). Co-localizes with LEMD3 at the nucleus inner membrane (PubMed:15601644). MAPK-mediated phosphorylation appears to have no effect on nuclear import (PubMed:19218245). PDPK1 prevents its nuclear translocation in response to TGF-beta (PubMed:17327236). Localized mainly to the nucleus in the early stages of embryo development with expression becoming evident in the cytoplasm of the inner cell mass at the blastocyst stage (By similarity).
Tissue specificity	Brain,Colon carcinoma,Esophagus tumor,Pancreas,Placenta,Spleen,Umbilical cord blood