

## Smad3 (Phospho Ser213) Rabbit pAb(AR20031)

### Key Features

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

### Recommended Dilution Ratios

|        |               |
|--------|---------------|
| WB:    | 1: 500-2000   |
| IHC:   | 1: 50-300     |
| ELISA: | 1: 2000-20000 |

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

This detects endogenous levels of Smad3 (Phospho-Ser213). 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):PMsPA

### Target Information

|              |   |
|--------------|---|
| Gene name    | SMAD3 MADH3   |
| Protein Name | Mothers against decapentaplegic homolog 3 (MAD homolog 3) (Mad3) (Mothers against DPP homolog 3) (hMAD-3) (JV15-2) (SMAD family member 3) (SMAD 3) (Smad3) (hSMAD3) |

Organism

Gene ID

UniProt ID

|       |       |        |
|-------|-------|--------|
| Human | 4088  | P84022 |
| Mouse | 17127 | Q8BUN5 |
| Rat   | 25631 | P84025 |

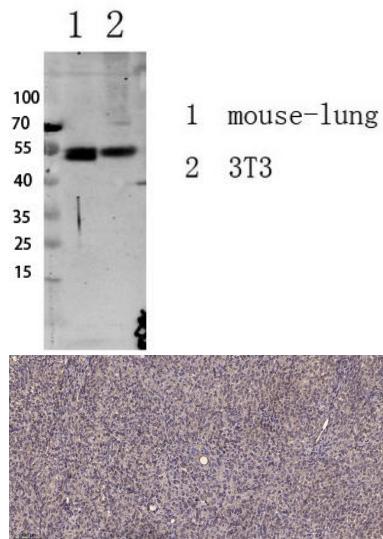
Cytoplasm . Nucleus . Cytoplasmic and nuclear in the absence of TGF-beta. On TGF-beta stimulation, migrates to the nucleus when complexed with SMAD4 (PubMed:15799969, PubMed:21145499). Through the action of the phosphatase PPM1A, released from the SMAD2/SMAD4 complex, and exported out of the nucleus 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). .

#### Cellular Localization

#### Tissue specificity

Brain,Coloncarcinoma,Esophagus tumor,Pancreas,Placenta,Spleen,Umbilical cord blood

## Validation Data



Western blot analysis of various lysate, antibody was diluted at 1000. Secondary antibody was diluted at 1:20000

Immunohistochemical analysis of paraffin-embedded human Colon cancer. 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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