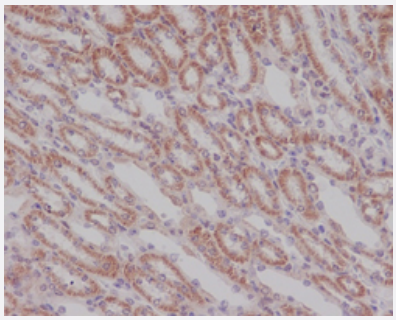
# SMAD3 monoclonal antibody, clone FG-19

Catalog # MAB20719 Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of mouse kidney with SMAD3 monoclonal antibody, clone FG-19 (Cat # MAB20719).

## Specification

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|---|---|
| **Product Description** | Rabbit monoclonal antibody raised against synthetic peptide of human SMAD3. |
| **Immunogen** | A synthetic peptide corresponding to human SMAD3. |
| **Host** | Rabbit |
| **Theoretical MW (kDa)** | 48.081 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Flow Cytometry (1:50)<br>Immunocytochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200)<br>Western Blot (1:500-1:2000)<br>The optimal working dilution should be determined by the end user. |

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| **Storage Buffer** | In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide). |
| **Storage Instruction** | Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of mouse kidney with SMAD3 monoclonal antibody, clone FG-19 (Cat # MAB20719).

- Immunofluorescence
- Immunocytochemistry
- Flow Cytometry
- Western Blot

## Gene Info — SMAD3

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|---|---|
| **Entrez GeneID** | 4088 |
| **Protein Accession#** | P84022 |
| **Gene Name** | SMAD3 |
| **Gene Alias** | DKFZp586N0721, DKFZp686J10186, HSPC193, HsT17436, JV15-2, MADH3, MGC60396 |
| **Gene Description** | SMAD family member 3 |
| **Omim ID** | 603109 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene pr oducts of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis. [provided by R efSeq |

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| **Other Designations** | MAD, mothers against decapentaplegic homolog 3\|SMA- and MAD-related protein 3\|SMAD, mothers against DPP homolog 3\|mad homolog JV15-2\|mad protein homolog\|mothers against decapentaplegic homolog 3 |

## Pathway

- Adherens junction
- Cell cycle
- Chronic myeloid leukemia
- Colorectal cancer
- Pancreatic cancer
- Pathways in cancer
- TGF-beta signaling pathway
- Wnt signaling pathway

## Disease

- Alzheimer disease
- Anemia
- Asthma
- Bacteremia
- Breast cancer
- Breast Neoplasms
- Cleft Lip
- Cleft Palate
- Coronary Artery Disease
- Crohn Disease
- Diabetes Mellitus

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- Diabetic Nephropathies
- Genetic Predisposition to Disease
- Graft vs Host Disease
- Head and Neck Neoplasms
- Hypersensitivity
- Hypertension
- Keloid
- Kidney Failure
- Liver Cirrhosis
- Neoplasm Recurrence
- Neoplasms
- Obesity
- Occupational Diseases
- Osteoarthritis
- Osteoporosis
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Polycystic Ovary Syndrome
- Prostate cancer
- Prostatic Neoplasms
- Puberty
- Pulmonary Disease
- Thrombophilia

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- Tobacco Use Disorder

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