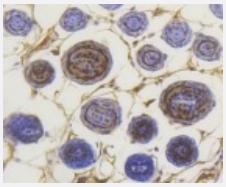
RecomAb™ Sm Size

# SMAD3 (phospho S423/S425) recombinant monoclonal antibody

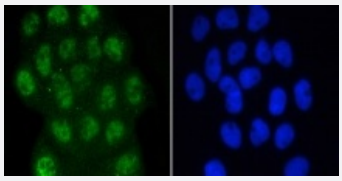
Catalog # RAB09429 Size 50 uL

## Applications



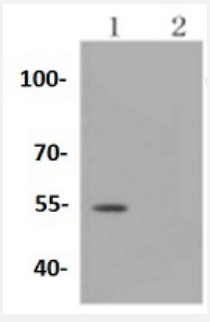
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded mouse skin tissue using SMAD3 (phospho S423/S425) recombinant monoclonal antibody (Cat # RAB09429). Counter stained with hematoxylin.



### Immunocytochemistry

Immunocytochemical staining of A431 cells using SMAD3 (phospho S423/S425) recombinant monoclonal antibody (Cat # RAB09429)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.




### Western Blot (Cell lysate)

Western blot analysis of Lane1:A431 whole cell lysate Lane2:A431 whole cell lysate treated with TGF-beta with SMAD3 (phospho S423/S425) recombinant monoclonal antibody (Cat # RAB09429) at 1:1000 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against SMAD3. |

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| | |
|---|---|
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant SMAD3. |
| **Theoretical MW (kDa)** | 55 |
| **Reactivity** | Human, Mouse |
| **Specificity** | This antibody detects endogenous levels of Smad3 only when phosphorylated at Ser423 and/or Ser425. |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunocytochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (1:50-1:200)<br>Western Blot (1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.2 (50% glycerol and 0.02% sodium azide) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Applications

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- Western Blot (Cell lysate)

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## Gene Info — SMAD3

| | |
|---|---|
| **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 products 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 RefSeq |
| **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

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- Wnt signaling pathway

## Disease

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

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- 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
- Tobacco Use Disorder

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