

# SMAD5 rabbit monoclonal antibody

Catalog # H00004090-K

Size 100 ug x up to 3

## Specification

|                                |                                                                                                                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Rabbit monoclonal antibody raised against a human SMAD5 peptide using ARM Technology.                                                                                                                                                                                        |
| <b>Immunogen</b>               | A synthetic peptide of human SMAD5 is used for rabbit immunization.<br>Customer or Abnova will decide on the preferred peptide sequence.                                                                                                                                     |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                       |
| <b>Library Construction</b>    | Non-fusion antibody library from rabbit spleen ( <a href="#">ARM Technology</a> ).                                                                                                                                                                                           |
| <b>Expression</b>              | Overexpression vector and transfection into 293H cell line.                                                                                                                                                                                                                  |
| <b>Reactivity</b>              | Human                                                                                                                                                                                                                                                                        |
| <b>Purification</b>            | Protein A                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                          |
| <b>Quality Control Testing</b> | Antibody reactive against human SMAD5 peptide by ELISA and mammalian transfected lysate by Western Blot.                                                                                                                                                                     |
| <b>Storage Buffer</b>          | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                            |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                     |
| <b>Deliverable</b>             | Up to three rabbit IgG clones of 100 ug each will be delivered to customer.                                                                                                                                                                                                  |
| <b>Note</b>                    | 1. Customer may provide cell or tissue lysate for antibody screening.<br>2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) <sub>2</sub> , IgG, scFv and different Fc and non-Fc conjugates per customer request. |

## Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

## Gene Info — SMAD5

|                     |                                                                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">4090</a>                                                                                                                                                                                                                 |
| GeneBank Accession# | <a href="#">SMAD5</a>                                                                                                                                                                                                                |
| Gene Name           | SMAD5                                                                                                                                                                                                                                |
| Gene Alias          | DKFZp781C1895, DKFZp781O1323, Dwfc, JV5-1, MADH5                                                                                                                                                                                     |
| Gene Description    | SMAD family member 5                                                                                                                                                                                                                 |
| Omim ID             | <a href="#">603110</a>                                                                                                                                                                                                               |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                            |
| Gene Summary        | mothers against decapentaplegic homolog 5 SMA- and MAD-related protein 5 SMAD                                                                                                                                                        |
| Other Designations  | MAD homolog 5 MAD, mothers against decapentaplegic homolog 5 SMA- and MAD-related protein 5 SMAD, mothers against DPP homolog 5 mothers against decapentaplegic homolog 5 mothers against decapentaplegic, drosophila, homolog of, 5 |

## Pathway

- [TGF-beta signaling pathway](#)

## Disease

- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Genetic Predisposition to Disease](#)
- [Hemochromatosis](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Obesity](#)

- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)