

## SMAD5 Monoclonal Antibody

### Description

|                                |  |
|--------------------------------|--|
| <b>Product type</b>            | Antibody   |
| <b>Code</b>                    | BT-MCA4231   |
| <b>Host</b>                    | Mouse  |
| <b>Isotype</b>                 | Mouse IgG1   |
| <b>Size</b>                    | 100µL, 50µL  |
| <b>Immunogen</b>               | Purified recombinant fragment of human SMAD5 expressed in E. Coli. |
| <b>Mol wt</b>                  | 52kDa  |
| <b>Species reactivity</b>      | Human,Rat  |
| <b>Clonality</b>               | Monoclonal   |
| <b>Recommended application</b> | WB,IHC,ICC,FCM   |
| <b>Concentration</b>           | N/A  |
| <b>Full name</b>               | N/A  |
| <b>Synonyms</b>                | Dwfc;JV5-1;MADH5;DKFZp781C1895;DKFZp781O1323;SMAD5                 |

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD). SMAD5 is required for normal development of the cardiovascular system in vivo; lack of the SMAD5 gene results in apoptosis of cardiac myocytes. 3 Upregulation of SMAD5 has been reported to mediate apoptosis of gastric epithelial cells induced by Helicobacter pylori infection. Tissue specificity: Ubiquitous.

### Recommended Dilution

WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

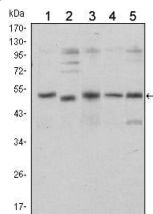
ICC: 1:200 - 1:1000

FCM: 1:200 - 1:400

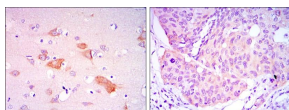
ELISA: 1:10000

Not yet tested in other applications.

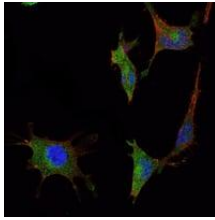
### Images



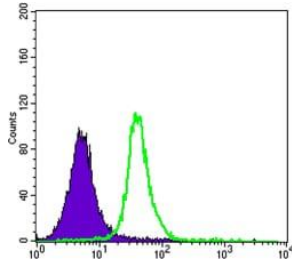
Western blot analysis using SMAD5 mouse mAb against HeLa (1), SK-N-SH (2), PC-12 (3), Jurkat (4), and K562 (5) cell lysate.



Immunohistochemical analysis of paraffin-embedded brain tissues (left) and lung cancer tissues (right) using SMAD5 mouse mAb with DAB staining.



Immunofluorescence analysis of NTERA-2 cells using SMAD5 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of Jurkat cells using SMAD5 mouse mAb (green) and negative control (purple).

### Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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