

## SMAD5 Polyclonal Antibody

Catalog number: 12167-1-AP

Size: 20 µg/150 µl

Source: Rabbit

Isotype: IgG

Synonyms:

SMAD5; DKFZp781C1895,

DKFZp781O1323, Dwfc,

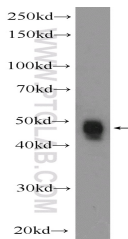
hSmad5, JV5 1, MAD homolog

5, MADH5, Mothers against

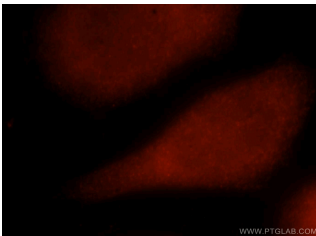
DPP homolog 5, SMAD 5,

SMAD family member 5,

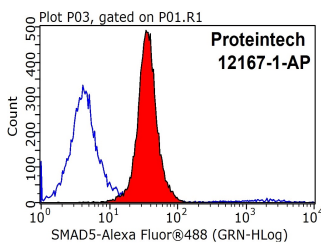
SMAD5



K-562 cells were subjected to SDS PAGE followed by western blot with 12167-1-AP (SMAD5 Antibody) at dilution of 1:1000



Immunofluorescent analysis of MCF-7 cells, using SMAD5 antibody 12167-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



1X10<sup>6</sup> MCF-7 cells were stained with 0.2ug SMAD5 antibody (12167-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

### Background

SMAD5, also named as MADH5 and JV5-1, is a transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD). It plays a critical role in the signaling pathway by which TGF-beta inhibits the proliferation of human hematopoietic progenitor cells.

### Applications

|                         |  |
|-------------------------|--|
| Tested applications:    | ELISA, IF, WB, FC, IP                        |
| Cited applications:     | WB   |
| Species specificity:    | Human, Mouse, Rat; other species not tested. |
| Cited species:          | Mouse, rat                                   |
| Calculated SMAD5 MW:    | 465aa, 52 kDa                                |
| Observed SMAD5 MW:      | 52 kDa                                       |
| Positive WB detected in | K-562 cells                                  |
| Positive IP detected in | K-562 cells                                  |
| Positive IF detected in | MCF-7 cells                                  |
| Positive FC detected in | MCF-7 cells                                  |
| Recommended dilution:   | WB: 1:500-1:5000                             |
|                         | IP: 1:500-1:5000                             |
|                         | IF: 1:10-1:100                               |
|                         | FC: N/A                                      |

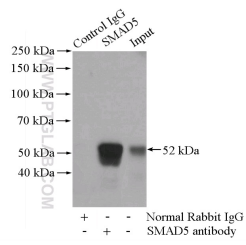
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

|                           |                      |
|---------------------------|----------------------|
| Immunogen:                | Ag2809               |
| GenBank accession number: | BC009682             |
| Gene ID (NCBI):           | 4090                 |
| Full name:                | SMAD family member 5 |

### Product information

|                      |   |
|----------------------|---|
| Purification method: | Antigen affinity purification                                       |
| Storage:             | PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |



**IP Result of anti-SMAD5**  
**(IP:12167-1-AP, 4ug;**  
**Detection:12167-1-AP 1:1000)**  
**with K-562 cells lysate 3200ug.**