

## Mothers against decapentaplegic homolog 2 Antibody

Mouse Monoclonal Antibody [Clone PCR-P-SMAD2-1B10]

| Catalog No      | Format                                       | Size   |
|-----------------|--|--------|
| 4087-MSM1-P0    | Purified Ab with BSA and Azide at 200ug/ml   | 20 ug  |
| 4087-MSM1-P1    | Purified Ab with BSA and Azide at 200ug/ml   | 100 ug |
| 4087-MSM1-P1ABX | Purified Ab WITHOUT BSA or Azide at 1.0mg/ml | 100 ug |

| Applications            | Tested Dillution    | Note |
|-------------------------|---------------------|------|
| Flow Cytometry (Flow)   | 1-2ug/million cells |      |
| Immunofluorescence (IF) | 1-3ug/ml            |      |

### Product Details

|                               |  |
|-------------------------------|--|
| <b>Clone</b>                  | PCR-P-SMAD2-1B10   |
| <b>Immunogen</b>              | Recombinant full-length human SMAD2 protein  |
| <b>Host</b>                   | Mouse  |
| <b>Clonality</b>              | Monoclonal   |
| <b>Isotype / Light Chain</b>  | IgG  |
| <b>Mol. Weight of Antigen</b> | 52.31kDa   |
| <b>Cellular Localization</b>  | Cytoplasm, Nucleus   |
| <b>Species Reactivity</b>     | Human  |
| <b>Positive Control</b>       | Expressed at high levels in skeletal muscle, endothelial cells, heart and placenta |

*\*Optimal dilution for a specific application should be determined.*

### Product Images for Mothers against decapentaplegic homolog 2 Antibody

#### Specificity & Comments

Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD2/SMAD4 complex, activates transcription. Promotes TGFB1-mediated transcription of odontoblastic differentiation genes in dental papilla cells (By similarity). Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator. May act as a tumor suppressor in colorectal carcinoma (PubMed:8752209).

#### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

#### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

#### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.