

Datasheet for ABIN6977945

## **anti-SMAD7 antibody (AA 1-100) (AbBy Fluor® 488)**



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### Overview

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                  |
| Target:              | SMAD7                                                                                                   |
| Binding Specificity: | AA 1-100                                                                                                |
| Reactivity:          | Human, Mouse, Rat                                                                                       |
| Host:                | Rabbit                                                                                                  |
| Clonality:           | Polyclonal                                                                                              |
| Conjugate:           | This SMAD7 antibody is conjugated to AbBy Fluor® 488                                                    |
| Application:         | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

### Product Details

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Immunogen:        | KLH conjugated synthetic peptide derived from human MADH7 |
| Isotype:          | IgG                                                       |
| Cross-Reactivity: | Human, Mouse, Rat                                         |
| Purification:     | Purified by Protein A.                                    |

### Target Details

|                   |                                                                                        |
|-------------------|----------------------------------------------------------------------------------------|
| Target:           | SMAD7                                                                                  |
| Alternative Name: | MADH7 ( <a href="#">SMAD7 Products</a> )                                               |
| Background:       | Synonyms: hSMAD 7, hSMAD7, MAD (mothers against decapentaplegic Drosophila) homolog 7, |

## Target Details

MAD, Mad homolog 7, MAD mothers against decapentaplegic homolog 7, MADH 7, MADH 8, MADH8, Mothers Against Decapentaplegic Drosophila Homolog of 7, Mothers against decapentaplegic homolog 7, Mothers against decapentaplegic homolog 8, Mothers against DPP homolog 7, Mothers against DPP homolog 8, SMA- AND MAD-RELATED PROTEIN 7, SMAD 7, SMAD, SMAD family member 7, SMAD, mothers against DPP homolog 7 (Drosophila), SMAD, mothers against DPP homolog 7, Smad7, SMAD7\_HUMAN

Background: The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFB1), leading to the degradation of both the encoded protein and TGFB1. Expression of this gene is induced by TGFB1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRC3). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

|           |                                                                                            |
|-----------|--------------------------------------------------------------------------------------------|
| Gene ID:  | 4092                                                                                       |
| UniProt:  | <a href="#">O15105</a>                                                                     |
| Pathways: | <a href="#">Interferon-gamma Pathway</a> , <a href="#">Cell-Cell Junction Organization</a> |

## Application Details

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions:      | For Research Use only                                        |

## Handling

|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                             |
| Concentration:     | 1 µg/µL                                                                                                            |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.        |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                             |

## Handling

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|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
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|              |           |
|--------------|-----------|
| Expiry Date: | 12 months |
|--------------|-----------|