

## Rabbit anti-Human Smad7 Polyclonal Antibody | anti-SMAD7 antibody

Smad7

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                     |
|-----------|--------|------------|----------------------------------|
| AAA36706  | Rabbit | Human      | Immunofluorescence, Western Blot |

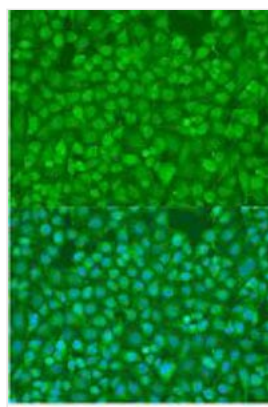
### PRODUCT SYNONYMS

Smad7; Polyclonal Antibody; SMAD7; CRCS3; MADH7; MADH8; SMAD family member 7; anti-SMAD7 antibody

### PRODUCT SPECIFICATIONS

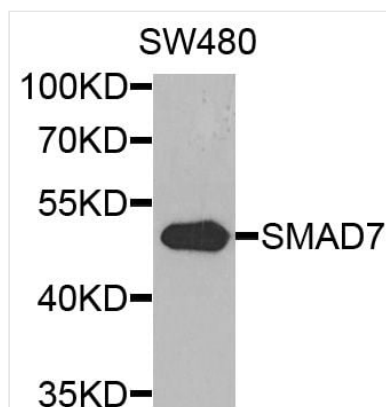
|                                                 |                                                                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                              |
| Reactivity                                      | Human                                                                                                               |
| Clonality                                       | Polyclonal                                                                                                          |
| Isotype                                         | IgG                                                                                                                 |
| Purity/Purification                             | Affinity purification                                                                                               |
| Sequence Length                                 | 425                                                                                                                 |
| Applicable Applications for anti-SMAD7 antibody | IF (Immunofluorescence), WB (Western Blot)                                                                          |
| Immunogen                                       | Recombinant fusion protein containing a sequence corresponding to amino acids 220-390 of human SMAD7 (NP_005895.1). |
| Buffer                                          | PBS with 0.02% sodium azide, 50% glycerol, pH7.3                                                                    |
| Preparation and Storage                         | Store at -20°C. Avoid freeze/thaw cycles.                                                                           |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence analysis of U2OS cells using SMAD7 antibody (AAA36706) at dilution of 1:100. Blue: DAPI for nuclear staining.



#### WB (Western Blot)

Western blot analysis of extracts of SW480 cells, using SMAD7 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 10s.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SMAD7 antibody | 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 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene. |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 299890805                                                                                                                                                                                                                                                     |
| NCBI GeneID                      | 4092                                                                                                                                                                                                                                                          |
| NCBI Accession #                 | NP_001177750.1                                                                                                                                                                                                                                                |
| NCBI GenBank Nucleotide #        | NM_001190821.1                                                                                                                                                                                                                                                |
| UniProt Accession #              | O15105; O14740; Q6DK23; B7Z773; K7EQ10                                                                                                                                                                                                                        |
| Molecular Weight                 | Calculated Molecular Weight: 23 kDa / 46 kDa<br>Observed Molecular Weight: 46 kDa                                                                                                                                                                             |
| NCBI Official Full Name          | mothers against decapentaplegic homolog 7 isoform 2                                                                                                                                                                                                           |
| NCBI Official Synonym Full Names | SMAD family member 7                                                                                                                                                                                                                                          |
| NCBI Official Symbol             | SMAD7                                                                                                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | CRCS3; MADH7; MADH8                                                                                                                                                                                                                                           |
| NCBI Protein Information         | mothers against decapentaplegic homolog 7; hSMAD7; MAD homolog 8; mothers against DPP homolog 8; SMAD, mothers against DPP homolog 7; Mothers against decapentaplegic, drosophila, homolog of, 7; MAD (mothers against decapentaplegic, Drosophila) homolog 7 |
| UniProt Protein Name             | Mothers against decapentaplegic homolog 7                                                                                                                                                                                                                     |
| UniProt Gene Name                | SMAD7                                                                                                                                                                                                                                                         |
| UniProt Synonym Gene Names       | MADH7; MADH8; MAD homolog 7; Mothers against DPP homolog 7; MAD homolog 8; Mothers against DPP homolog 8; SMAD 7; Smad7; hSMAD7                                                                                                                               |
| UniProt Entry Name               | SMAD7_HUMAN                                                                                                                                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/smad7-antibody-immunofluorescence-western-blot-elisa/36706>