

## Rabbit Smad2/3 Polyclonal Antibody | anti-SMAD3 antibody

Phospho-Smad2/3 (Thr8) Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA31059  | Rabbit | Human, Mouse, Rat | Western Blot, Immunohistochemistry, ELISA |

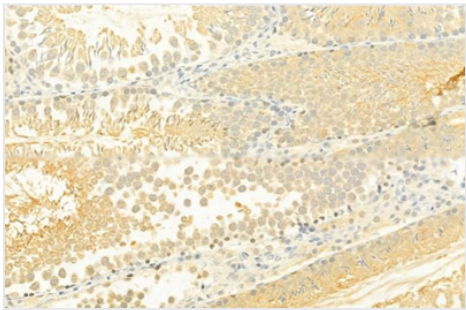
### PRODUCT SYNONYMS

Smad2/3; Polyclonal Antibody; Phospho-Smad2/3 (Thr8) Antibody; DKFZP586N0721; DKFZp686J10186; hMAD 3; hMAD-3; hSMAD3; HSPC193; HST17436; JV15 2; JV15-2; JV152; LDS1C; LDS3; MAD (mothers against decapentaplegic Drosophila) homolog 3; MAD homolog 3; Mad protein homolog; MAD; mothers against decapentaplegic homolog 3; Mad3; MADH 3; MADH3; MGC60396; Mothers against decapentaplegic homolog 3; Mothers against DPP homolog 3; SMA and MAD related protein 3; SMAD 3; SMAD; SMAD family member 3; mothers against DPP homolog 3; Smad3; SMAD3\_HUMAN; Drosophila; homolog of; MADR2; hMAD-2; HsMAD2; JV18; JV18-1; JV181; MAD homolog 2; MAD Related Protein 2; Mad-related protein 2; MADH2; MGC22139; MGC34440; Mother against DPP homolog 2; Mothers against decapentaplegic homolog 2; Mothers against decapentaplegic; 2; Mothers against DPP homolog 2; OTTHUMP00000163489; Sma and Mad related protein 2; Sma-and Mad-related protein 2 MAD; SMAD 2; SMAD family member 2; mothers against DPP homolog 2; SMAD2; SMAD2\_HUMAN; anti-SMAD3 antibody

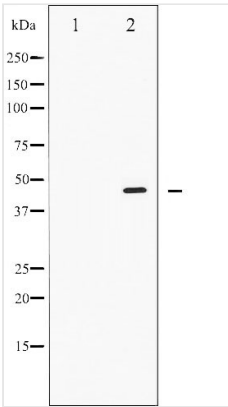
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                              |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                   |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                          |
| Isotype                                         | IgG                                                                                                                                                                                                                                                                                                 |
| Purity/Purification                             | The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide affinity columns                                                                                                                                                                     |
| Form/Format                                     | Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                 |
| Concentration                                   | ~1mg/ml (varies by lot)                                                                                                                                                                                                                                                                             |
| Sequence Length                                 | 320                                                                                                                                                                                                                                                                                                 |
| Applicable Applications for anti-SMAD3 antibody | WB (Western Blot), IHC (Immunohistochemistry), ELISA                                                                                                                                                                                                                                                |
| Application Notes                               | WB: 1:500-1:2000<br>IHC: 1:50-1:200<br>ELISA (peptide): 1:20000-1:40000<br>The optimal dilutions should be determined by the end user.<br><br>IMPORTANT: For western blots, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight. |
| Immunogen                                       | A synthesized peptide derived from human Smad2/3 around the phosphorylation site of Thr8.                                                                                                                                                                                                           |
| Preparation and Storage                         | Store at -20°C. Stable for up to 12 months from date of receipt.                                                                                                                                                                                                                                    |

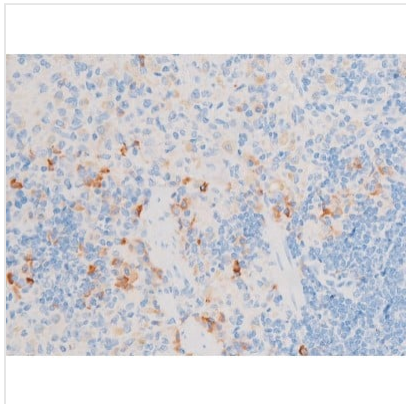
IMAGES



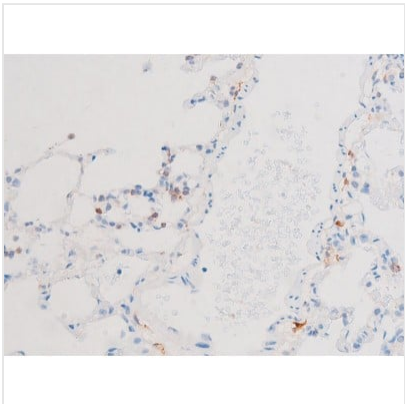
**IHC (Immunohistochemistry)**  
AAA31059 at 1/100 staining Rat testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**WB (Western Blot)**  
Western blot analysis of Smad2/3 phosphorylation expression in RAW264.7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



**IHC (Immunohistochemistry)**  
AAA31059 at 1/200 staining Rat spleen tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



**IHC (Immunohistochemistry)**  
AAA31059 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SMAD3 antibody | Description: Smad2 ubiquitously expressed transcription factor phosphorylated and activated by TGF-beta receptor-type kinases. Participates in a wide range of critical processes including morphogenesis, cell-fate determination, proliferation, differentiation and apoptosis. |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 223029440                                                                                                     |
| NCBI GeneID                      | 4088                                                                                                          |
| NCBI Accession #                 | NP_001138574.1                                                                                                |
| NCBI GenBank Nucleotide #        | NM_001145102.1                                                                                                |
| UniProt Accession #              | P84022/Q15796; O09064; O09144; O14510; O35273; Q92940; Q93002; A8K4B6; B7Z4Z5; B7Z6M9; B7Z9Q2; F5H383; P84022 |
| Molecular Weight                 | 48/60kDa                                                                                                      |
| NCBI Official Full Name          | mothers against decapentaplegic homolog 3 isoform 2                                                           |
| NCBI Official Synonym Full Names | SMAD family member 3                                                                                          |

|                               |                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------|
| NCBI Official Symbol          | SMAD3                                                                                    |
| NCBI Official Synonym Symbols | LDS3; LDS1C; MADH3; JV15-2; HSPC193; HsT17436                                            |
| NCBI Protein Information      | mothers against decapentaplegic homolog 3                                                |
| UniProt Protein Name          | Mothers against decapentaplegic homolog 3                                                |
| UniProt Gene Name             | <b>SMAD3</b>                                                                             |
| UniProt Synonym Gene Names    | MADH3; MAD homolog 3; Mad3; Mothers against DPP homolog 3; hMAD-3; SMAD 3; Smad3; hSMAD3 |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/smad2-3-antibody-western-blot-immunohistochemistry-elisa/31059>