

## Smad2 Antibody | anti-Smad2 antibody

Smad2 (Phospho-Ser467) Antibody

|                               |                                        |                                                                  |
|-------------------------------|----------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA111906</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|----------------------------------------|------------------------------------------------------------------|

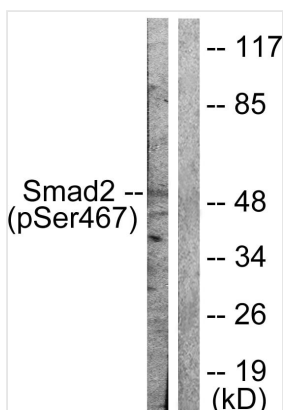
### PRODUCT SYNONYMS

Smad2; Smad2 (Phospho-Ser467) Antibody; JV18-1; MADH2; MADR2; Mad-related protein 2; Mothers against DPP homolog 2; Mothers against decapentaplegic homolog 2; Smad 2; anti-Smad2 antibody

### PRODUCT SPECIFICATIONS

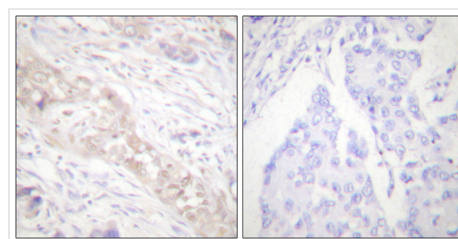
|                                                 |                                                                                                                                                                                                                                                     |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                   |
| Specificity                                     | Smad2 (Phospho-Ser467) antibody detects endogenous levels of Smad2 only when phosphorylated at serine 467.                                                                                                                                          |
| Purity/Purification                             | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. |
| Form/Format                                     | In phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                             |
| Sequence Length                                 | 467                                                                                                                                                                                                                                                 |
| Applicable Applications for anti-Smad2 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                |
| Immunogen                                       | The antiserum was produced against synthesized phosphopeptide derived from human Smad2 around the phosphorylation site of serine 467 (C-S-S-M-SP).                                                                                                  |
| All Sites                                       | Human: Ser467<br>Mouse: Ser467<br>Rat: Ser467                                                                                                                                                                                                       |
| Preparation and Storage                         | Store at -20 degree C for 1 year                                                                                                                                                                                                                    |

### IMAGES



#### WB (Western Blot)

Western blot analysis of extracts from HeLa cells treated with PMA (125ng/ml, 15mins), using Smad2 (Phospho-Ser467) antibody (#A0030).



#### IHC (Immunohistochemistry)

P-peptide-+ Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Smad2 (Phospho-Ser467) antibody (#A0030).

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                       |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Categories/Family for anti-Smad2 antibody | Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells                     |
| References                                        | Kamaraju AK, J Biol Chem 2005 Jan 14; 280(2): 1024-36. Ottesen JJ, Biochemistry 2004 May 18; 43(19): 5698-706. Bourguignon LY, J Biol Chem 2002 Oct 18; 277(42): 39703-12. Souchelnytskyi S, J Biol Chem 1997 Oct; 272(44): 28107-15. |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------|
| NCBI GI #                        | 51173730                                                                                  |
| NCBI GeneID                      | 4087                                                                                      |
| NCBI Accession #                 | NP_001003652.1                                                                            |
| NCBI GenBank Nucleotide #        | NM_001003652.3                                                                            |
| UniProt Accession #              | Q15796                                                                                    |
| Molecular Weight                 | 48,956 Da                                                                                 |
| NCBI Official Full Name          | mothers against decapentaplegic homolog 2 isoform 1                                       |
| NCBI Official Synonym Full Names | SMAD family member 2                                                                      |
| NCBI Official Symbol             | SMAD2                                                                                     |
| NCBI Official Synonym Symbols    | JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2                                                |
| NCBI Protein Information         | mothers against decapentaplegic homolog 2                                                 |
| UniProt Protein Name             | Mothers against decapentaplegic homolog 2                                                 |
| UniProt Gene Name                | <b>SMAD2</b>                                                                              |
| UniProt Synonym Gene Names       | MADH2; MADR2; MAD homolog 2; Mothers against DPP homolog 2; hMAD-2; SMAD 2; Smad2; hSMAD2 |

**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.