Rabbit Smad5 Polyclonal Antibody | anti-Smad5 antibody

Phospho-Smad5 (Ser463/Ser465) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31331	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

Smad5; Polyclonal Antibody; Phospho-Smad5 (Ser463/Ser465) Antibody; DKFZp781C1895; DKFZp781O1323; Dwfc; hSmad5; JV5 1; JV5-1; MAD homolog 5; MAD; mothers against decapentaplegic homolog 5; MADH 5; MADH5; Mothers against decapentaplegic homolog 5; mothers against decapentaplegic; drosophila; homolog of; 5; Mothers against DPP homolog 5; MusMLP; SMA and MAD related protein 5; SMAD 5; SMAD family member 5; SMAD; mothers against DPP homolog 5; SMAD5_HUMAN; anti-Smad5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Smad5 (Ser463/Ser465) Antibody detects endogenous levels of Smad5 only when phosphorylated at Ser463/465. Tissue Specificity: Ubiquitous.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Smad5 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	IHC: 1:50-1:200 WB: 1:500-1:2000 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Smad5 around the phosphorylation site of Ser463/465.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated on serine by BMP (bone morphogenetic proteins) type 1 receptor kinase.Ubiquitin-mediated proteolysis by SMAD-specific E3 ubiquitin ligase SMURF1.
Subunit Structure	May form trimers with the co-SMAD SMAD4. Interacts with PEBP2-alpha subunit and SMURF1. Interacts with SUV39H1 and SUV39H2. Interacts (via MH2 domain) with LEMD3. Interacts with WWP1. Interacts with TMEM119 (By similarity). Interacts with ZNF8. Interacts with RANBP3L.
Similarity	Belongs to the dwarfin/SMAD family.
Subcellular Location	Cytoplasm. Nucleus. Note: Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with SMAD4.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IHC (Immunohistochemistry)
At 1/100 staining Human kidney cancer and adjacent normal tissues 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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

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At 1/100 staining Human ovarian cancer and adjacent normal tissues 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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohistochemistry)
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IHC (Immunohistchemistry)
At 1/100 staining Mouse spleen 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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-Smad5 antibody	Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD).

NCBI AND UNIPROT INFORMATION

NCBI GI #	47778929
NCBI GeneID	4090
NCBI Accession #	NP_001001419.1
NCBI GenBank Nucleotide #	NM_001001419.1
UniProt Accession #	Q99717; O14688; Q15798; Q9UQA1
Molecular Weight	465
NCBI Official Full Name	mothers against decapentaplegic homolog 5
NCBI Official Synonym Full Names	SMAD family member 5
NCBI Official Symbol	SMAD5
NCBI Official Synonym Symbols	DWFC; JV5-1; MADH5
NCBI Protein Information	mothers against decapentaplegic homolog 5; SMA- and MAD-related protein 5; SMAD, mothers against DPP homolog 5; MAD, mothers against decapentaplegic homolog 5; mothers against decapentaplegic, drosophila, homolog of, 5
UniProt Protein Name	Mothers against decapentaplegic homolog 5

UniProt Gene Name	**SMAD5**
UniProt Synonym Gene Names	MADH5; MAD homolog 5; Mothers against DPP homolog 5; SMAD 5; Smad5; hSmad5
UniProt Entry Name	SMAD5_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.

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