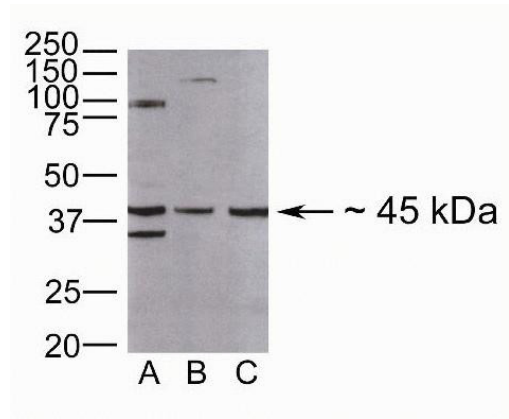


SMAD7 Polyclonal Antibody

| Product Details | |
|--------------------|---|
| Size | 100 µg |
| Species Reactivity | Human, Mouse, Rat |
| Published Species | Rat, Mouse, Human |
| Host/Isotype | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Immunogen | Synthetic peptide derived from the C-terminal region of the human SMAD7 |
| Form | Liquid |
| Concentration | 0.25 mg/mL |
| Purification | Antigen affinity chromatography |
| Storage buffer | PBS, pH 7.4 |
| Contains | 0.1% sodium azide |
| Storage conditions | -20°C |
| RRID | AB_2533512 |

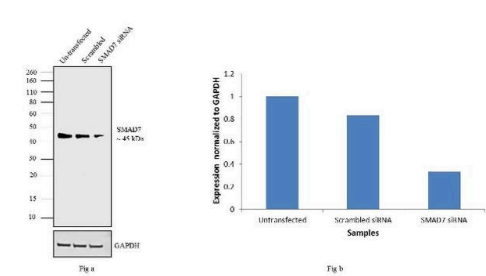
| Applications | Tested Dilution | Publications |
|---|-----------------|-----------------|
| Western Blot (WB) | 1-2 µg/mL | 10 Publications |
| Immunohistochemistry (IHC) | - | 1 Publication |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:10-1:50 | 1 Publication |
| Immunocytochemistry (ICC/IF) | 1 µg/mL | 2 Publications |

Product Images For SMAD7 Polyclonal Antibody



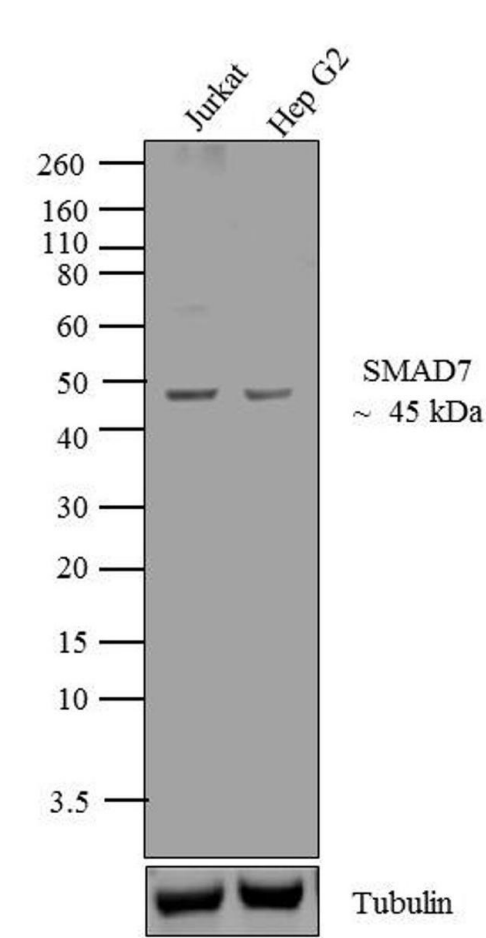
SMAD7 Antibody (42-0400) in WB

Western blot analysis of (A) A549 cell lysates, (B) mouse lung, and (C) rat lung homogenates using Zymed Rb anti-Smad7 (C-term) (Product # 42-0400).



SMAD7 Antibody (42-0400)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with SMAD7 siRNA and decrease in signal intensity was observed in western blot application (Fig a) using Anti-SMAD7 Rabbit Polyclonal Antibody (Product # 42-0400). Densitometric analysis of this western blot is shown in histogram (Fig b). {KD}



SMAD7 Antibody (42-0400) in WB

Western blot analysis of SMAD7 was performed by loading 20 µg of Jurkat (lane1) and Hep G2 (lane2) cell lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® 2 Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. SMAD7 was detected at ~ 45 kDa using SMAD7 Rabbit Polyclonal Antibody (Product # 42-0400) at 1-2 µg/mL in 5 % skim milk at 4°C overnight on a rocking platform. Goat Anti-Rabbit IgG - HRP Secondary Antibody (G21234) at 1:5000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

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Western Blot (10)

| | |
|---|---|
| <p>Nucleic acids research</p> <p>The acetyltransferase p300 is recruited in trans to multiple enhancer sites by IncSmad7.</p> <p>"42-0400 was used in Western Blotting to find 122 lncRNAs that interacts directly with p300."</p> <p>Authors: Maldotti M,Lauria A,Anselmi F,Molineris I,Tamburrini A,Meng G,Polignano IL,Scrivano MG,Campestre F, Simon LM,Rapelli S,Morandi E,Incarnato D,Oliviero S</p> | <p>Year 2022</p> <p>Species Mouse</p> |
| <p>BioMed research international</p> <p>Deletion of <i>Akt1</i> Promotes Kidney Fibrosis in a Murine Model of Unilateral Ureteral Obstruction.</p> <p>"42-0400 was used in Western Blotting to show renal fibrosis can be promoted by Akt1 deletion by induction of the TGF1 /STAT3 pathway."</p> <p>Authors: Kim IY, Lee MY, Park MW, Seong EY, Lee DW, Lee SB, Bae SS, Kim SS, Song SH</p> | <p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:500</p> |

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Immunohistochemistry (1)

| | |
|--|---|
| <p>FASEB journal : official publication of the Federation of American Societies for Experimental Biology</p> <p>The role of endogenous Smad7 in regulating macrophage phenotype following myocardial infarction.</p> <p>"42-0400 was used in Immunohistochemistry-immunofluorescence to suggest a limited role for macrophage Smad7 in regulation of post-infarction inflammation and repair, and demonstrate that the anti-inflammatory effects of TGF- in macrophages are not restrained by endogenous Smad7 induction."</p> <p>Authors: Li J, Li R, Tuleta I, Hernandez SC, Humeres C, Hanna A, Chen B, Frangogiannis NG</p> | <p>Year 2022</p> <p>Species Mouse</p> |
|--|---|

Immunohistochemistry (Paraffin) (1)

| | |
|--|---|
| <p>Biology of reproduction</p> <p>SMAD7 regulates proinflammatory and prolabor mediators in amnion and myometrium.</p> <p>"42-0400 was used in Immunohistochemistry on paraffin embedded tissues to study the effect of spontaneous human labour and prolabor mediators on SMAD7 expression in myometrium and fetal membranes."</p> <p>Authors: Lim R, Barker G, Lappas M</p> | <p>Year 2017</p> <p>Species Human</p> |
|--|---|

More applications with references on thermofisher.com

ICC/IF (2)

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