

Phospho-SMAD2 (Thr8) Recombinant Rabbit Monoclonal Antibody (11H10L30)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	11H10L30
Conjugate	Unconjugated
Immunogen	proprietary
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532278

Applications	Tested Dilution	Publications
Western Blot (WB)	1-3 µg/mL	-
Immunocytochemistry (ICC/IF)	1 µg/mL	-
Immunoprecipitation (IP)	Assay-Dependent	-
ChIP assay (ChIP)	3 µg	-
RNA Immunoprecipitation (RIP)	Assay-Dependent	-

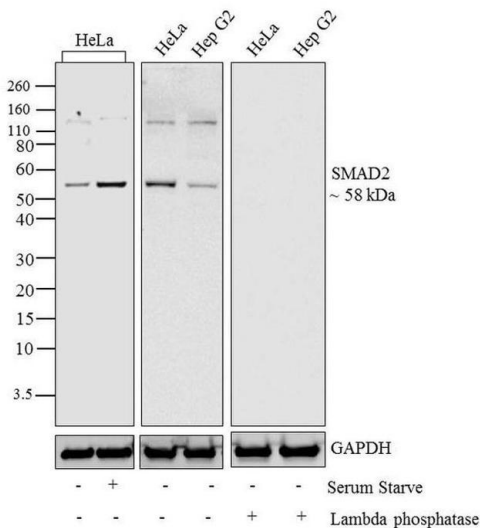
Product Specific Information

This antibody is predicted to react with bovine, Drosophila, mouse, rat and Xenopus based on sequence homology.

Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

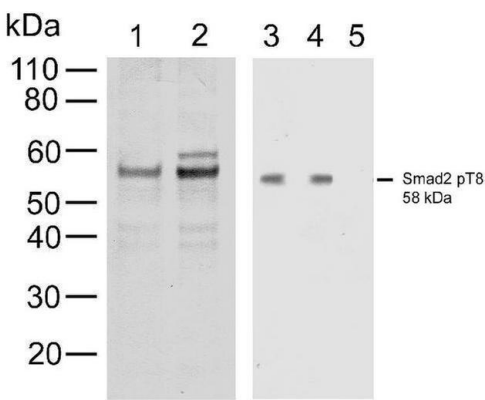
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For Phospho-SMAD2 (Thr8) Recombinant Rabbit Monoclonal Antibody (11H10L30)



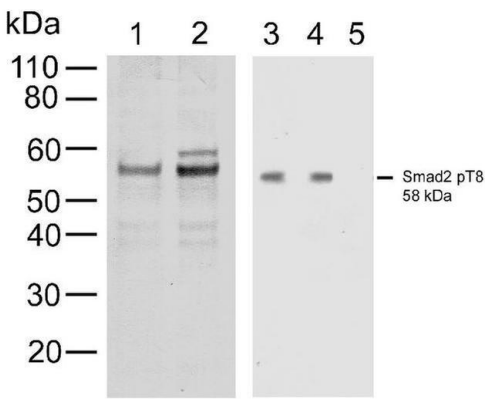
Phospho-SMAD2 (Thr8) Antibody (700050) in WB

Western blot analysis of SMAD2 (pT8) was performed by loading 20 µg of HeLa (lane1), Serum Starved HeLa (lane2), HeLa (lane3), Hep G2 (lane4), HeLa (lane 5) and Hep G2 (lane6) cell lysates using Novex®NuPAGE®4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (Product # LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. SMAD2 (pT8) was detected at ~58 kDa using SMAD2 (pT8) Recombinant Rabbit Monoclonal Antibody (Product # 700050) at 1-3 µg/mL in 2.5 % skim milk at 4°C overnight on a rocking platform. To confirm specificity, the corresponding blot on right with HeLa and Hep G2 cell lysates was incubated with lambda phosphatase and its reactivity with antibody was tested. Goat anti-Rabbit IgG-HRP Secondary Antibody (Product # G-21234) at 1:5000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



Phospho-SMAD2 (Thr8) Antibody (700050)

Modulation of expression of target protein by cell treatment to demonstrate antibody specificity. Western blot analysis of SMAD2 [pT8] using SMAD2 [pT8] Recombinant Rabbit Monoclonal Antibody (Product # 700050) shows induction of SMAD2 [pT8] phosphorylation in serum starved HeLa cells treated with TGF-beta. {TM}



Phospho-SMAD2 (Thr8) Antibody (700050) in WB

Western blot analysis of Phospho-SMAD2 pThr8 in serum-starved HeLa cells, untreated (lane 1) and treated with TGF-beta (10 ng/mL, 30 min) (lane 2) using a Phospho-SMAD2 pThr8 recombinant rabbit monoclonal antibody (Product # 700050) at a dilution of 1 µg/mL. Lanes 3-5 represent competition experiments on lysate from HeLa cells treated with TGF-b: no preincubation with peptide (lane 3), preincubation with the nonphospho peptide (lane 4) and preincubation with the phospho-peptide (lane 5), showing specificity to the pT8 site. NBT/BCIP was used as the substrate (Product # WB7105).

View more figures on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.