

Prohibitin Monoclonal Antibody (II-14-10)

Product Details

Size	500 µL
Species Reactivity	Chicken, Human, Mouse, Non-human primate, Pig, Rat
Published Species	Avian, Pig, Rat, Virus, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	II-14-10
Conjugate	Unconjugated
Immunogen	Purified recombinant rat prohibitin protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10980219

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-1.0 µg/mL	43 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	2-4 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	-	2 Publications
Immunoprecipitation (IP)	-	1 Publication
ChIP assay (ChIP)	-	1 Publication

Product Specific Information

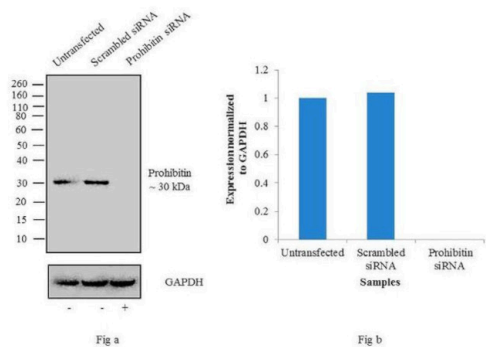
MA5-12858 targets Prohibitin in immunofluorescence, immunohistochemistry (paraffin), and Western blot applications and shows reactivity with Chicken, Human, mouse, Porcine, and Rat samples.

The MA5-12858 immunogen is purified recombinant rat prohibitin protein.

Product Images For Prohibitin Monoclonal Antibody (II-14-10)

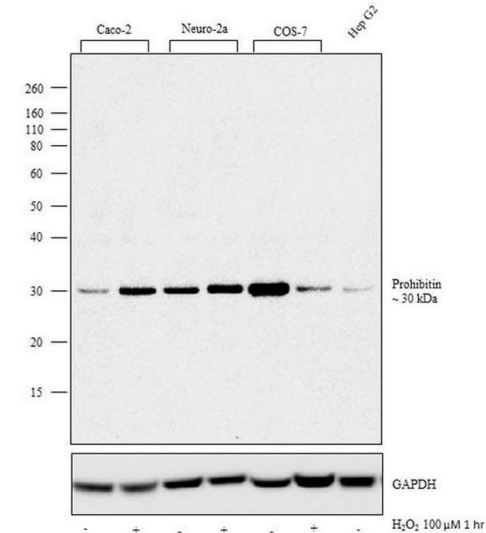
Prohibitin Antibody (MA5-12858)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HEPG2 cells were transfected with Prohibitin siRNA and decrease in signal intensity was observed in western blot application using anti-Prohibitin siRNA (Product # MA5-12858). {KD}



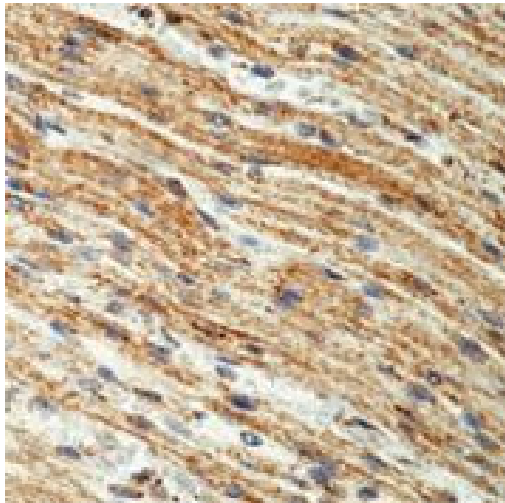
Prohibitin Antibody (MA5-12858) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg of lysate) of Caco-2 (Lane 1), Caco-2 treated with H₂O₂ (100uM for 1 hr) (Lane2), Neuro-2a (Lane 3), Neuro-2a treated with H₂O₂ (100uM for 1 hr) (Lane 4), COS-7 (Lane 5), COS-7 treated with H₂O₂ (100uM for 1 hr) (Lane 6) and HepG2 (Lane 7). The blots were probed with anti-Prohibitin Mouse Monoclonal Antibody (Product # MA5-12858, 1 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 30 kDa band corresponding to Prohibitin was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Prohibitin Antibody (MA5-12858) in IHC (P)

Formalin-fixed, paraffin-embedded human heart stained with Prohibitin antibody using peroxidase-conjugate and DAB chromogen.



View more figures on thermofisher.com

Western Blot (43)

<p>Theranostics</p> <p>A novel function of Prohibitin on melanosome transport in melanocytes.</p> <p>"Published figure using Prohibitin monoclonal antibody (Product # MA5-12858) in Western Blot"</p> <p>Authors: Jo CS,Park HI,Jung HJ,Park JI, Lee JE,Myung CH,Hwang JS</p>	<p>Year</p> <p>2021</p>
<p>The Journal of biological chemistry</p> <p>Stop codon read-through of mammalian <i>MTCH2</i> leading to an unstable isoform regulates mitochondrial membrane potential.</p> <p>"Published figure using Prohibitin monoclonal antibody (Product # MA5-12858) in Western Blot"</p> <p>Authors: Manjunath LE,Singh A,Sahoo S,Mishra A,Padmarajan J,Basavaraju CG,Eswarappa SM</p>	<p>Year</p> <p>2020</p> <p>Species</p> <p>Human</p>

View more WB references on thermofisher.com

Immunohistochemistry (5)

<p>International journal of molecular sciences</p> <p>All-trans retinoic acid treatment is associated with prohibitin expression in renal interstitial fibrosis rats.</p> <p>"MA5-12858 was used in immunohistochemistry to study the association between treatment with all-trans retinoic acid and prohibitin expression in rats suffering renal interstitial fibrosis"</p> <p>Authors: Zhou TB,Qin YH,Li ZY,Xu HL,Zhao YJ,Lei FY</p>	<p>Year</p> <p>2015</p> <p>Species</p> <p>Rat</p> <p>Dilution</p> <p>1:300</p>
<p>APMIS : acta pathologica, microbiologica, et immunologica Scandinavica</p> <p>Structural analysis of tissues affected by cytochrome C oxidase deficiency due to mutations in the SCO2 gene.</p> <p>"MA5-12858 was used in immunohistochemistry to investigate the clinicopathological features of cytochrome C oxidase deficiency due to SCO2 mutations"</p> <p>Authors: Vesela K,Hulkova H,Hanskova H,Zeman J,Elleder M</p>	<p>Year</p> <p>2008</p> <p>Species</p> <p>Human</p>

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

- IHC (P) (2)
- ICC/IF (3)
- Flow (2)
- IP (1)
- ChIP (1)

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.