

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, Human, Mouse
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	44 Publications
Immunohistochemistry (IHC)	-	6 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

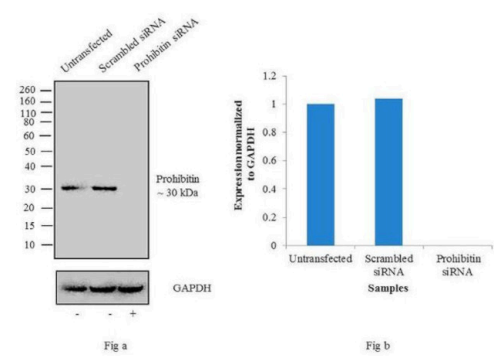
MA5-12858 targets Prohibitin in immunofluorescence, immunohistochemistry (paraffin), and Western blot applications and shows reactivity with Chicken, Human, mouse, Porcine, and Rat samples.

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

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

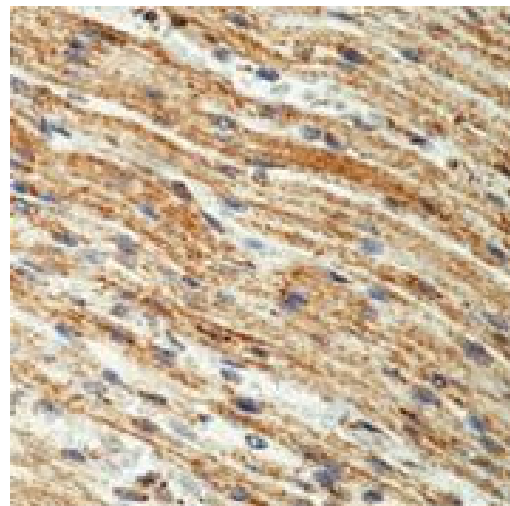
Prohibitin Antibody (MA5-12858)

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}



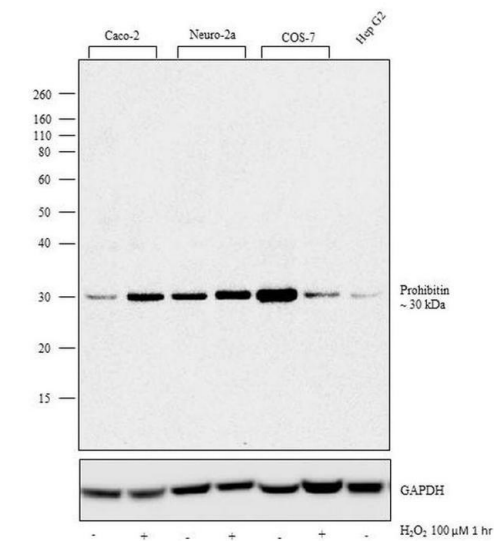
Prohibitin Antibody (MA5-12858) in IHC (P)

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



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).



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Western Blot (44)

<p>Molecular biology of the cell</p> <p>Evidence for low-level translation in human erythrocytes.</p> <p>"MA5-12858 was used in Western Blotting to provide multiple lines of evidence for translation of globin mRNAs in human mature erythrocytes."</p> <p>Authors: Kumar SD,Kar D,Akhtar MN,Willard B,Roy D,Hussain T,Rajyaguru PI,Eswarappa SM</p>	<p>Year 2022</p> <p>Species Human</p>
<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 2021</p>

View more WB references on thermofisher.com

Immunohistochemistry (6)

<p>Diagnostics (Basel, Switzerland)</p> <p>The Utility of Mitochondrial Detection Methods Applied as an Additional Tool for the Differentiation of Renal Cell Tumors.</p> <p>"MA5-12858 was used in Immunohistochemistry to present a strategy that utilizes fast and easy mitochondrial detection to differentiate RO from chRCC, as well as other eosinophilic variants of RCC with high accuracy."</p> <p>Authors: Nikolic G,Zivotic M,Cirovic S,Despotovic S,Dundjerovic D,Radojevic Skodric S</p>	<p>Year 2023</p> <p>Species Human</p> <p>Dilution 1:50</p>
<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 2015</p> <p>Species Rat</p> <p>Dilution 1:300</p>

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More applications with references on thermofisher.com

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

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