Performance guarenteed'



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
Туре	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

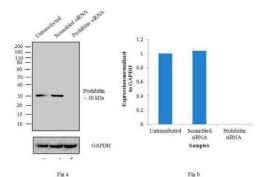
Product Specific Information

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.

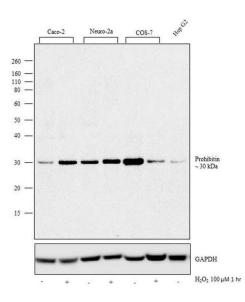
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Product Images For Prohibitin Monoclonal Antibody (II-14-10)



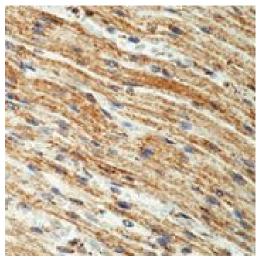
Prohibitin Antibody (MA5-12858)

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.

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Theranostics	Year
A novel function of Prohibitin on melanosome transport in melanocytes.	2021
"Published figure using Prohibitin monoclonal antibody (Product # MA5-12858) in Western Blot"	
Authors: Jo CS,Park HI,Jung HJ,Park JI,Lee JE,Myung CH,Hwang JS	
The Journal of biological chemistry	Year
Stop codon read-through of mammalian <i>MTCH</i> 2 leading to an unstable	2020
isoform regulates mitochondrial membrane potential.	Species
"Published figure using Prohibitin monoclonal antibody (Product # MA5-12858) in Western Blot"	Human
Authors: Manjunath LE, Singh A, Sahoo S, Mishra A, Padmarajan J, Basavaraju CG, Eswarappa SM	
	View more WB references on thermofishe
nmunohistochemistry (5)	
International journal of molecular sciences	Year
All-trans retinoic acid treatment is associated with prohibitin expression	2015
in renal interstitial fibrosis rats.	Species
"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"	Rat
Authore: Zhou TR Oip VH Li ZV Yu HI Zhao V II oi EV	Dilution

Authors: Zhou TB,Qin YH,Li ZY,Xu HL,Zhao YJ,Lei FY

□ 57 References

Western Blot (43)

APMIS : acta pathologica, microbiologica, et immunologica
ScandinavicaYear
2008Structural analysis of tissues affected by cytochrome C oxidase
deficiency due to mutations in the SCO2 gene.Species
Human"MA5-12858 was used in immunohistochemistry to investigate the clinicopathological features of cytochrome C oxidase
deficiency due to SCO2 mutations"Species
Human

Authors: Vesela K, Hulkova H, Hansikova H, Zeman J, Elleder M

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1:300

More applications with references on thermofisher.cn

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

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