

Product datasheet

Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker ab75771

Recombinant RabMAb

[13 References](#) [11 Images](#)

Overview

Product name	Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker
Description	Rabbit monoclonal [EP2804Y] to Prohibitin - Mitochondrial Marker
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Prohibitin aa 150-250. The exact sequence is proprietary.
Positive control	WB: MCF-7, PC-12, A431 and Ramos cell lysate; IHC-P: human hepatocellular carcinoma tissue, mouse kidney tissue, mouse endometrium tissue, mouse liver tissue, rat liver tissue and rat stomach tissue; ICC/IF: Hela and Neuro-2a cells. IP: MCF7
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number EP2804Y
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab75771 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 30 kDa.
IP		1/110.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/250.

Target

Function Prohibitin inhibits DNA synthesis. It has a role in regulating proliferation. As yet it is unclear if the protein or the mRNA exhibits this effect. May play a role in regulating mitochondrial respiration activity and in aging.

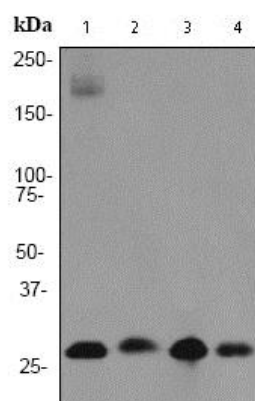
Tissue specificity Widely expressed in different tissues.

Sequence similarities Belongs to the prohibitin family.

Developmental stage Levels of expression in fibroblasts decrease heterogeneously during cellular aging.

Cellular localization Mitochondrion inner membrane.

Images



Western blot - Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker (ab75771)

All lanes : Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker (ab75771) at 1/1000 dilution

Lane 1 : MCF-7 cell lysates

Lane 2 : PC-12 cell lysates

Lane 3 : A431 cell lysates

Lane 4 : Ramos cell lysates

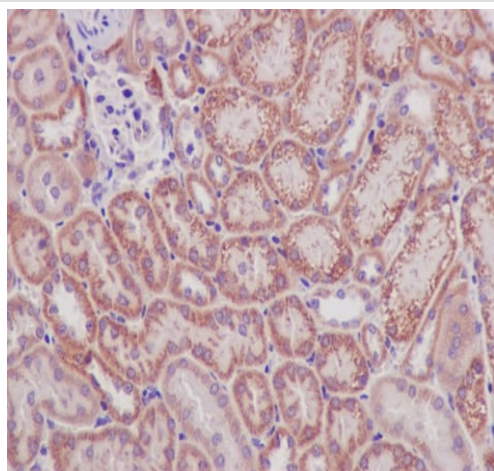
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 30 kDa

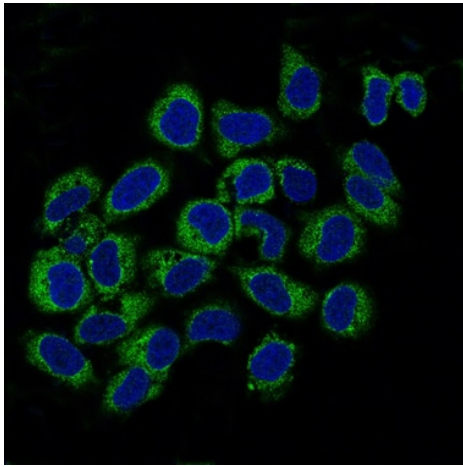
Observed band size: 30 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker (ab75771)

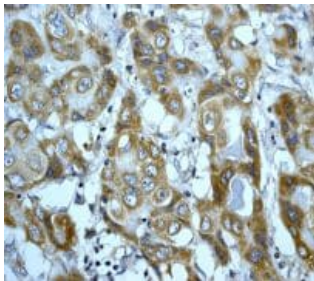
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue labelling Prohibitin with ab75771 at 1/250.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker (ab75771)

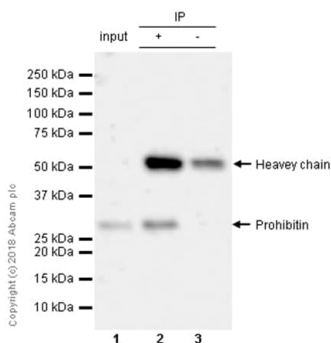
Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Prohibitin with **ab75711** at 1/250. An Alexa Fluor® 488-conjugated anti-rabbit IgG was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker (ab75771)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human hepatocellular carcinoma tissue labelling Prohibitin with ab75771 at 1/100. A HRP/AP polymerized secondary antibody was used.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker (ab75771)

ab75771 (purified) at 1/110 dilution (20 µg/ml) immunoprecipitating Prohibitin in MCF7 whole cell lysate .

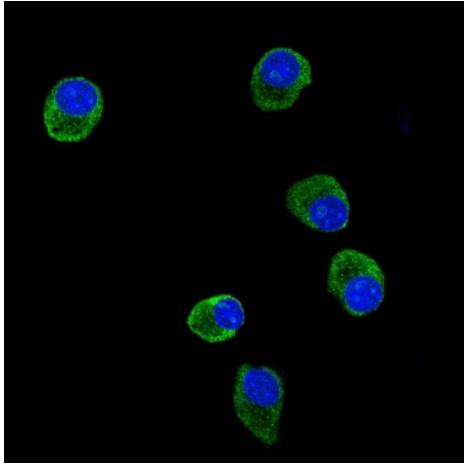
Lane 1 (input): MCF7(Human breast adenocarcinoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab75771 & MCF7 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab75771 in MCF7 whole cell lysate

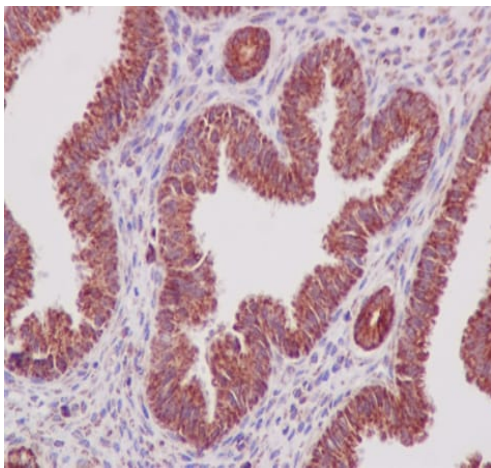
For western blotting, ab75771 at 1/500 dilution (4.3 µg/ml) VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1/1000 dilution.

Blocking and diluting buffer: 5% NFDM /TBST .



Immunocytochemistry/ Immunofluorescence - Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker (ab75771)

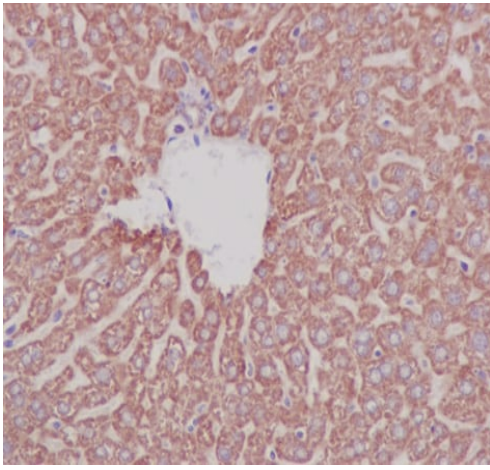
Immunocytochemistry/Immunofluorescence analysis of Neuro-2a cells labelling Prohibitin with **ab75711** at 1/250. An Alexa Fluor® 488-conjugated anti-rabbit IgG was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker (ab75771)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse endometrium tissue labelling Prohibitin with ab75771 at 1/250.

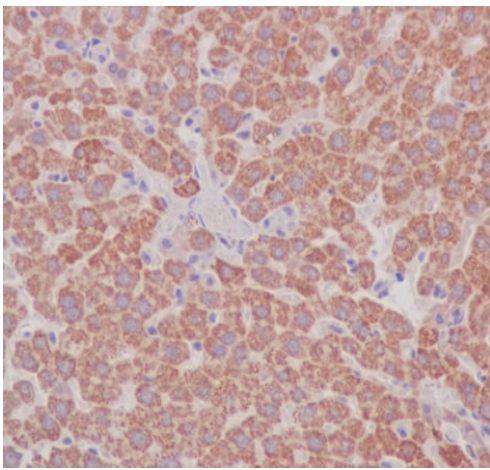
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prohibitin antibody
[EP2804Y] - Mitochondrial Marker (ab75771)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse liver tissue labelling Prohibitin with ab75771 at 1/250.

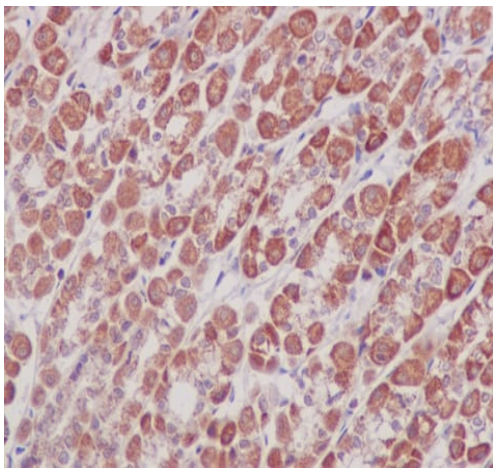
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prohibitin antibody
[EP2804Y] - Mitochondrial Marker (ab75771)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat liver tissue labelling Prohibitin with ab75771 at 1/250.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

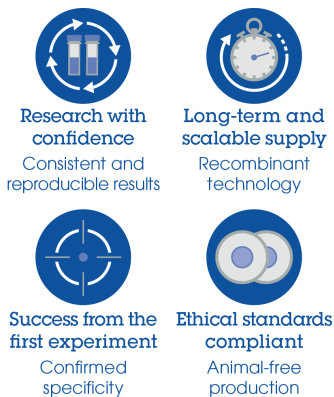


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prohibitin antibody
[EP2804Y] - Mitochondrial Marker (ab75771)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat stomach tissue labelling Prohibitin with ab75771 at 1/250.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Anti-Prohibitin antibody [EP2804Y] - Mitochondrial Marker (ab75771)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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