

Prohibitin Polyclonal Antibody

Catalog NumberPA5-27329

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Mouse, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 23 and 272 of Human Prohibitin	Immunoprecipitation (IP)	1:100-1:500
		Western Blot (WB)	1:500-1:3,000
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Form	Liquid	Published Applications	
Concentration	0.34 mg/mL	Western Blot (WB)	See 1 publications below
Purification	Antigen affinity chromatography	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol		
Contains	0.025% ProClin 300		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

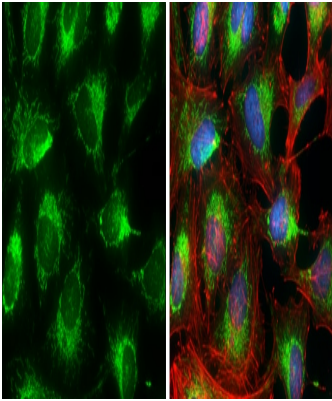
Recommended positive controls: 293T, A431, HeLa, HepG2, NIH-3T3, PC-12. Predicted reactivity: Mouse (99%), Rat (99%), Zebrafish (93%), Xenopus laevis (92%), Dog (100%), Cat (100%), Chicken (95%), Rhesus Monkey (100%), Chimpanzee (100%), Bovine (100%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

Prohibitin is from an evolutionarily conserved gene that is ubiquitously expressed. It is thought to be a negative regulator of cell proliferation and may be a tumor suppressor. Mutations in PHB have been linked to sporadic breast cancer. Prohibitin is expressed as two transcripts with varying lengths of 3' untranslated region. The longer transcript is present at higher levels in proliferating tissues and cells, suggesting that this longer 3' untranslated region may function as a trans-acting regulatory RNA.

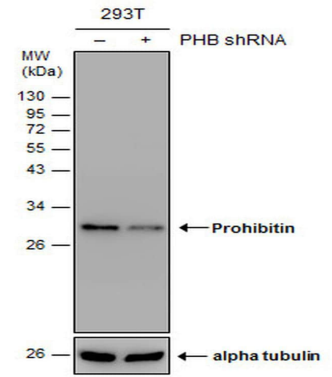
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Product Images For Prohibitin Polyclonal Antibody



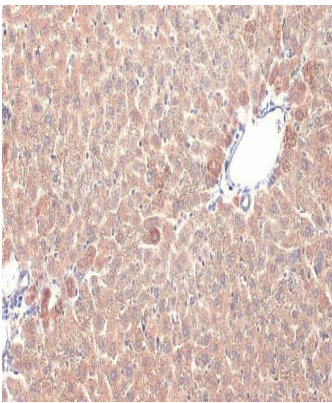
Prohibitin Antibody (PA5-27329) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of Prohibitin was performed in HeLa cells fixed in 4% paraformaldehyde at RT for 15 min. Green: Prohibitin Polyclonal Antibody (Product # PA5-27329) diluted at 1:500. Red: Phalloidin, a cytoskeleton marker. Blue: Hoechst 33342 staining.



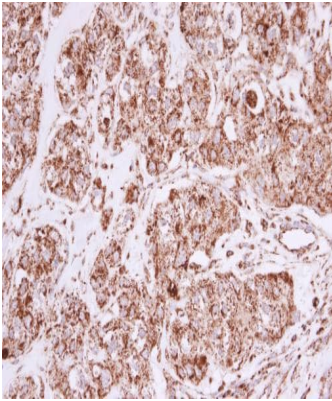
Prohibitin Antibody (PA5-27329)

Antibody specificity was demonstrated by shRNA mediated knockdown of the target protein. 293T cells were transfected with Prohibitin shRNA and decrease in signal intensity was observed in Western blot application using Prohibitin Polyclonal Antibody (Product # PA5-27329). {KD}



Prohibitin Antibody (PA5-27329) in IHC (P)

Prohibitin Polyclonal Antibody detects Prohibitin protein at mitochondria by immunohistochemical analysis. Sample: Paraffin-embedded mouse liver. Prohibitin stained by Prohibitin Polyclonal Antibody (Product # PA5-27329) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



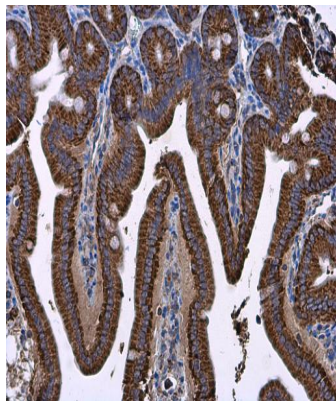
Prohibitin Antibody (PA5-27329) in IHC (P)

Immunohistochemistry (Paraffin) analysis of Prohibitin was performed in paraffin-embedded human breast carcinoma tissue using Prohibitin Polyclonal Antibody (Product # PA5-27329) at a dilution of 1:500.

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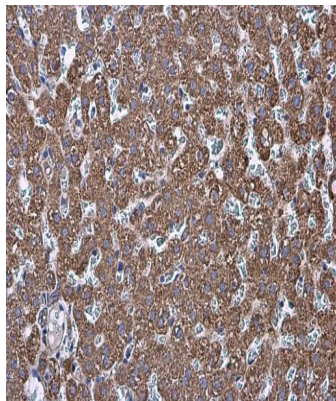
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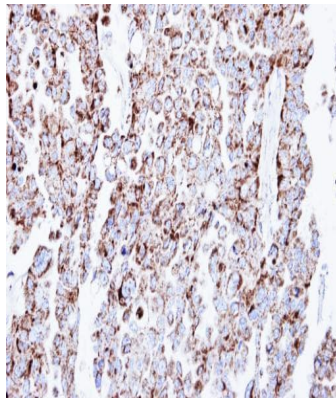
#### Prohibitin Antibody (PA5-27329) in IHC (P)

Immunohistochemistry (Paraffin) analysis of Prohibitin was performed in paraffin-embedded mouse intestine tissue using Prohibitin Polyclonal Antibody (Product # PA5-27329) at a dilution of 1:500.



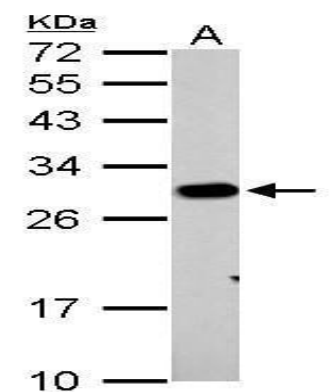
#### Prohibitin Antibody (PA5-27329) in IHC (P)

Immunohistochemistry (Paraffin) analysis of Prohibitin was performed in paraffin-embedded rat liver tissue using Prohibitin Polyclonal Antibody (Product # PA5-27329) at a dilution of 1:500.



#### Prohibitin Antibody (PA5-27329) in IHC (P)

Immunohistochemical analysis of paraffin-embedded OVCAR3 xenograft, using Prohibitin (Product # PA5-27329) antibody at 1:500 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



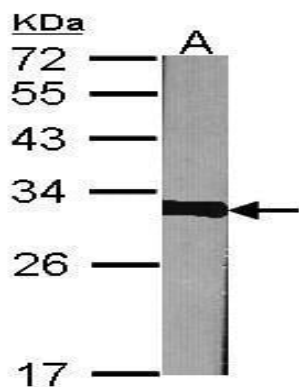
#### Prohibitin Antibody (PA5-27329) in WB

Prohibitin Polyclonal Antibody detects PHB protein by western blot analysis. A. 30 µg PC-12 whole cell lysate/extract. 12% SDS-PAGE. Prohibitin Polyclonal Antibody (Product # PA5-27329) dilution: 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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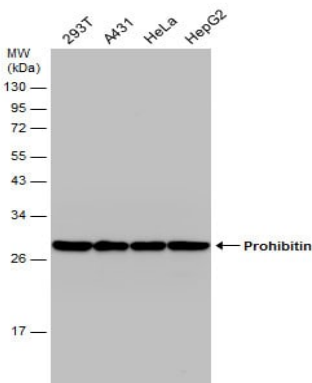
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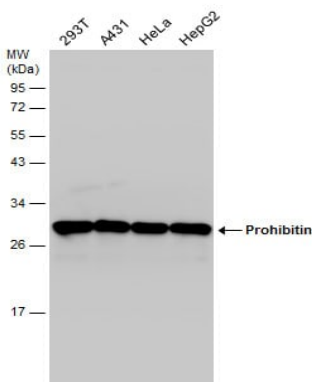
#### Prohibitin Antibody (PA5-27329) in WB

Western Blot using Prohibitin Polyclonal Antibody (Product # PA5-27329). Sample (30 µg of whole cell lysate). Lane A: NIH-3T3. 12% SDS PAGE. Prohibitin Polyclonal Antibody (Product # PA5-27329) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



#### Prohibitin Antibody (PA5-27329) in WB

Western Blot analysis of Prohibitin was performed by separating 30 µg of various whole cell extracts by 12% SDS-PAGE. Proteins were transferred to a membrane and probed with a Prohibitin Polyclonal Antibody (Product # PA5-27329) at a dilution of 1:1000.



#### Prohibitin Antibody (PA5-27329) in WB

Western Blot using Prohibitin Polyclonal Antibody (Product # PA5-27329). Various whole cell extracts (30 µg) were separated by 12% SDS-PAGE, and the membrane was blotted with Prohibitin Polyclonal Antibody (Product # PA5-27329) diluted at 1:1,000.

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PubMed References For Prohibitin Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
	PA5-27329 was used in Western Blotting to demonstrate a novel lipid interaction for caspase-1 and identify a role for mitochondria as supramolecular organising centres in the assembly and activation of the NLRP3 inflammasome.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) ( 2018; 200: 3047) "Cutting Edge: Mitochondrial Assembly of the NLRP3 Inflammasome Complex Is Initiated at Priming." Author(s):Elliott EJ,Miller AN,Banoth B,Iyer SS,Stotland A,Weiss JP,Gottlieb RA,Sutterwala FS,Cassel SL PubMed Article URL: <a href="http://dx.doi.org/10.4049/jimmunol.1701723">http://dx.doi.org/10.4049/jimmunol.1701723</a>

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