

RUVBL1 Polyclonal Antibody

Catalog NumberPA5-29278

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Polyclonal	Tested Applications	
Type	Antibody	ChIP assay (ChIP)	Dilution * 2 µg/10^6 cells
Immunogen	Recombinant fragment corresponding to a region within amino acids 57 and 345 of Human RUVBL1	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
		Immunoprecipitation (IP)	1:100-1:500
Conjugate	Unconjugated	Western Blot (WB)	1:500-1:3,000
Form	Liquid	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Concentration	0.32 mg/mL	Published Applications	
Purification	Antigen affinity chromatography	Western Blot (WB)	See 2 publications below
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA	* 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.	
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: A549, H1299, HCT116. Predicted reactivity: Mouse (99%), Rat (99%), Zebrafish (97%), Xenopus laevis (97%), Chicken (99%), Rhesus Monkey (100%), Chimpanzee (100%), Bovine (99%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It may attenuate protein kinase C activity by regulating diacylglycerol levels in intracellular signaling cascade and signal transduction. Alternative splicing occurs at this locus and four transcript variants encoding distinct isoforms have been identified.

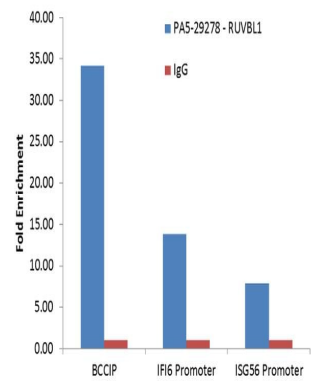
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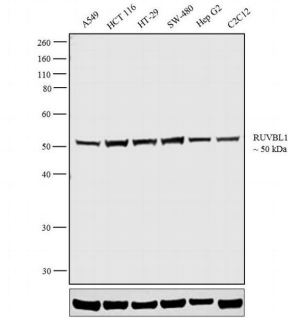
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Product Images For RUVBL1 Polyclonal Antibody



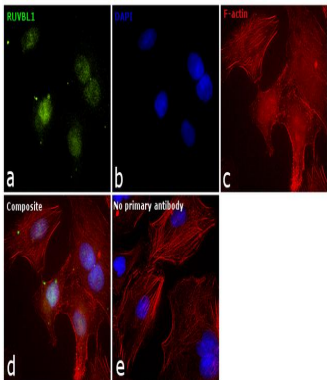
RUVBL1 Antibody (PA5-29278)

Antibody specificity was demonstrated by detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using Anti-RUVBL1 Rabbit Polyclonal Antibody (Product # PA5-29278) using PCR primer pairs over the BCCIP gene and promoters of IFI6 and ISG56. {RE}



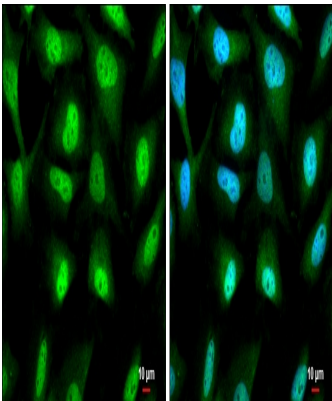
RUVBL1 Antibody (PA5-29278) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A549 (Lane 1), HCT 116 (Lane 2), HT-29 (Lane 3), SW-480 (Lane 4), Hep G2 (Lane 5) and C2C12 (Lane 8). The blot was probed with RUVBL1 Polyclonal Antibody (Product # PA5-29278, 1:500 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 50 kDa band corresponding to RUVBL1 was observed across the cell lines tested.



RUVBL1 Antibody (PA5-29278) in ICC/IF

Immunofluorescence analysis of RUVBL1 was performed using 70% confluent log phase A549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with RUVBL1 Rabbit Polyclonal Antibody (Product # PA5-29278) at 5 µg/mL in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



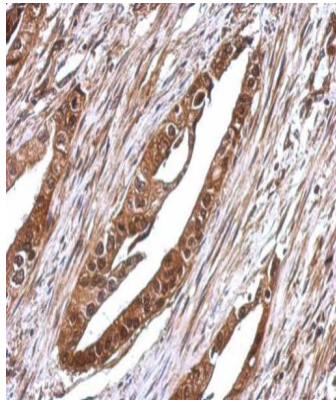
RUVBL1 Antibody (PA5-29278) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of RUVBL1 was performed in HeLa cells fixed in 4% paraformaldehyde at RT for 15 min. Green: RUVBL1 Polyclonal Antibody (Product # PA5-29278) diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 µm.

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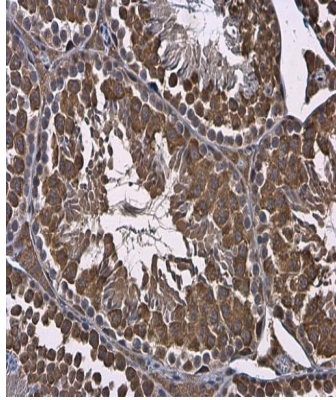
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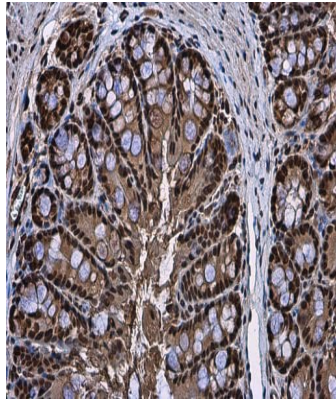
RUVBL1 Antibody (PA5-29278) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using RUVBL1 (Product # PA5-29278) antibody at 1:500 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



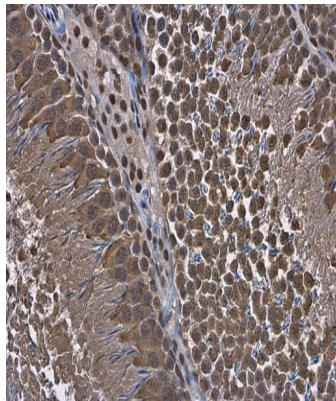
RUVBL1 Antibody (PA5-29278) in IHC (P)

Immunohistochemistry (Paraffin) analysis of RUVBL1 was performed in paraffin-embedded mouse testis tissue using RUVBL1 Polyclonal Antibody (Product # PA5-29278) at a dilution of 1:500.



RUVBL1 Antibody (PA5-29278) in IHC (P)

Immunohistochemistry (Paraffin) analysis of RUVBL1 was performed in paraffin-embedded mouse colon tissue using RUVBL1 Polyclonal Antibody (Product # PA5-29278) at a dilution of 1:500.



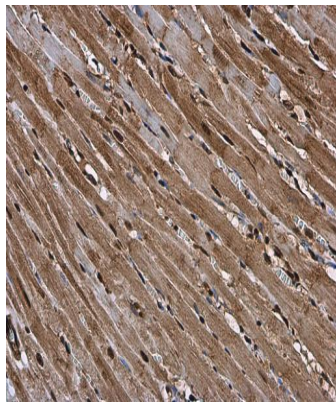
RUVBL1 Antibody (PA5-29278) in IHC (P)

Immunohistochemistry (Paraffin) analysis of RUVBL1 was performed in paraffin-embedded rat testis tissue using RUVBL1 Polyclonal Antibody (Product # PA5-29278) at a dilution of 1:500.

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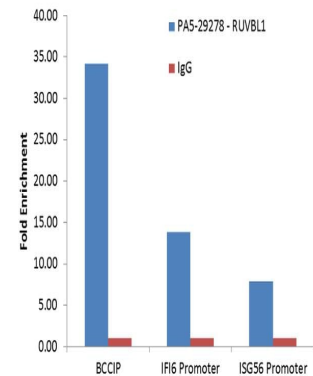
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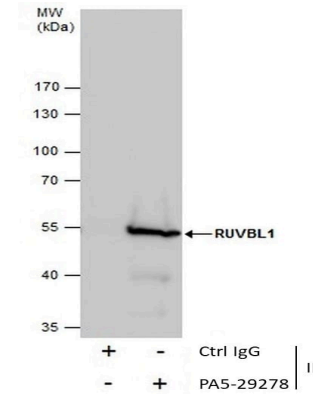
RUVBL1 Antibody (PA5-29278) in IHC (P)

Immunohistochemistry (Paraffin) analysis of RUVBL1 was performed in paraffin-embedded rat heart tissue using RUVBL1 Polyclonal Antibody (Product # PA5-29278) at a dilution of 1:500.



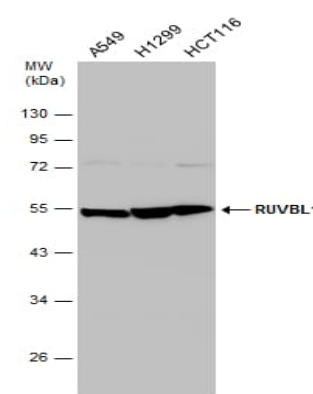
RUVBL1 Antibody (PA5-29278) in ChIP

Enrichment of endogenous RUVBL1 protein at specific gene loci using Anti-RUVBL1 Antibody: Chromatin Immunoprecipitation (ChIP) was performed using Anti-RUVBL1 Rabbit Polyclonal Antibody (Product # PA5-29278, 4 µg) on sheared chromatin from 2 million SW480 cells using the MAGnify ChIP system kit (Product # 49-2024). Normal Rabbit IgG was used as a negative IP control. The purified DNA was analyzed by qPCR with PCR primer pairs over the BCCIP gene and promoters of IFI6 and ISG56. Data is presented as fold enrichment of the antibody signal versus the negative control IgG using the comparative CT method.



RUVBL1 Antibody (PA5-29278) in IP

Immunoprecipitation of RUVBL1 was performed in Jurkat whole cell extracts using 5 µg of RUVBL1 Polyclonal Antibody (Product # PA5-29278). Samples were transferred to a membrane and probed with RUVBL1 Polyclonal Antibody as a primary antibody and an HRP-conjugated anti-Rabbit IgG was used as a secondary antibody.



RUVBL1 Antibody (PA5-29278) in WB

Western Blot analysis of RUVBL1 was performed by separating 30 µg of various whole cell extracts by 10% SDS-PAGE. Proteins were transferred to a membrane and probed with a RUVBL1 Polyclonal Antibody (Product # PA5-29278) at a dilution of 1:1000.

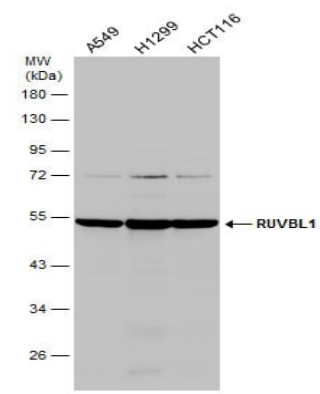
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RUVBL1 Antibody (PA5-29278) in WB

Western Blot using RUVBL1 Polyclonal Antibody (Product # PA5-29278). Various whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with RUVBL1 Polyclonal Antibody (Product # PA5-29278) diluted at 1:1,000.



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PubMed References For RUVBL1 Polyclonal Antibody

2 Western Blot References

Species / Dilution	Summary
Human / Not Cited	PA5-29278 was used in Western Blot to study the molecular mechanisms of TRAIL resistance in Non-Small Cell Lung Cancer.
	Frontiers in oncology (2021; 11:) "RuvBL1 Maintains Resistance to TRAIL-Induced Apoptosis by Suppressing c-Jun/AP-1 Activity in Non-Small Cell Lung Cancer." Author(s):Li H,Zhou T,Zhang Y,Jiang H,Zhang J,Hua Z PubMed Article URL: http://dx.doi.org/10.3389/fonc.2021.679243
Human / Not Cited	PA529278 was used in western blot to examine the effects of the arginine methyltransferase PRMT5 on homologous recombination-mediated double-strand break repair
	Molecular cell (2017; 65: 900) "PRMT5-Dependent Methylation of the TIP60 Coactivator RUVBL1 Is a Key Regulator of Homologous Recombination." Author(s):Clarke TL,Sanchez-Bailon MP,Chiang K,Reynolds JJ,Herrero-Ruiz J,Bandeiras TM,Matias PM,Maslen SL,Skehel JM,Stewart GS,Davies CC PubMed Article URL: http://dx.doi.org/10.1016/j.molcel.2017.01.019

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