

For Research Use Only

MDC1 Polyclonal antibody

Catalog Number: 24721-1-AP **7 Publications**



Basic Information

Catalog Number: 24721-1-AP	GenBank Accession Number: BC152556	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 1400 ug/ml by Nanodrop and 507 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 9656	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q14676	
Isotype: IgG	Full Name: mediator of DNA damage checkpoint 1	
Immunogen Catalog Number: AG20135	Calculated MW: 2089 aa, 227 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : HeLa cells, IHC : mouse testis tissue, IF/ICC : HEK-293 cells,
Cited Applications: WB, IF	
Species Specificity: human	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

MDC1, also named as KIAA0170 or NFB1, is a 2089 amino acid protein, which contains two BRCT domains and one FHA domain. MDC1 localizes in the nucleus and is highly expressed in testis. MDC1 is required for checkpoint mediated cell cycle arrest in response to DNA damage within both the S phase and G2/M phases of the cell cycle. MDC1 may serve as a scaffold for the recruitment of DNA repair and signal transduction proteins to discrete foci of DNA damage marked.

Notable Publications

Author	Pubmed ID	Journal	Application
Jiao Zhao	35597237	Mol Cell	WB
Yuanyuan Zhao	29567990	Cell Death Dis	IF
Rong Xie	35378404	DNA Repair (Amst)	WB

Storage

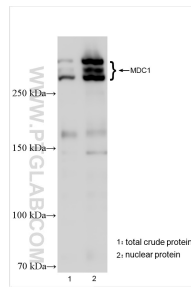
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

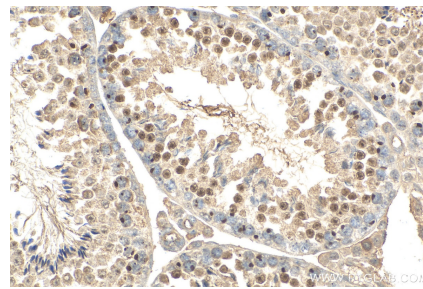
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

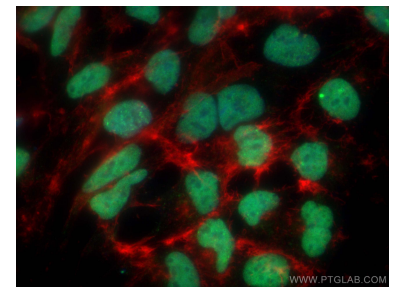
Selected Validation Data



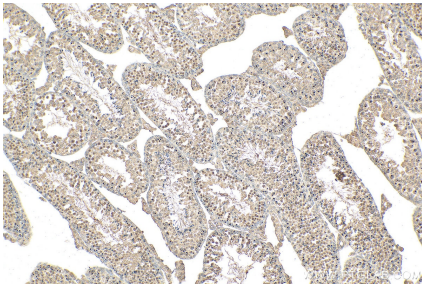
Various lysates were subjected to SDS PAGE followed by western blot with 24721-1-AP (MDC1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 24721-1-AP (MDC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using MDC1 antibody (24721-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 24721-1-AP (MDC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).