

For Research Use Only

# MDC1 Polyclonal antibody

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



## Basic Information

<b>Catalog Number:</b> 24721-1-AP	<b>GenBank Accession Number:</b> BC152556	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 1400 µg/ml by Nanodrop and 507 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 9656	<b>Recommended Dilutions:</b> IHC 1:20-1:200 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> mediator of DNA damage checkpoint 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 2089 aa, 227 kDa	
<b>Immunogen Catalog Number:</b> AG20135		

## Applications

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

## Background Information

MDC1, also named as KIAA0170 or NFBD1, 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
Yuanyuan Zhao	29567990	Cell Death Dis	IF

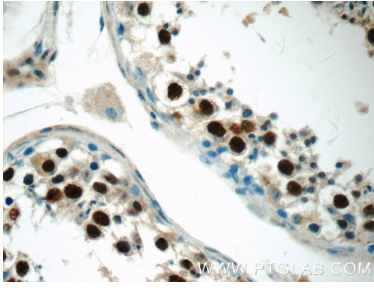
## Storage

**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

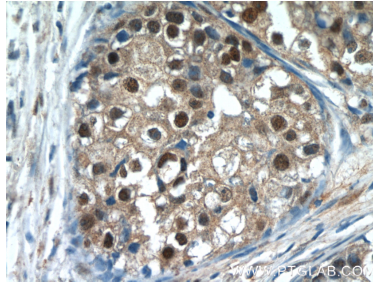
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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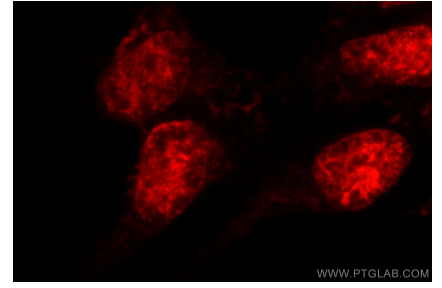
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 24721-1-AP (MDC1 Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 24721-1-AP (MDC1 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HEK-293 cells using 24721-1-AP (MDC1 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.