

For Research Use Only

# ATM Recombinant antibody

Catalog Number:83608-5-RR



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>83608-5-RR                              | <b>GenBank Accession Number:</b><br>BC137169       | <b>Purification Method:</b><br>Protein A purification                                      |
| <b>Size:</b><br>100ul , Concentration: 1000 ug/ml by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>472                       | <b>CloneNo.:</b><br>240560F5   |
| <b>Source:</b><br>Rabbit  | <b>UNIPROT ID:</b><br>Q13315                       | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IHC 1:200-1:800<br>IF/ICC 1:50-1:500 |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>ataxia telangiectasia mutated |  |
| <b>Immunogen Catalog Number:</b><br>AG25920                       | <b>Observed MW:</b><br>310-350 kDa                 |  |

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), ELISA

**Species Specificity:**  
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**

**Positive Controls:**

**WB :** HEK-293 cells, HepG2 cells, HeLa cells, Raji cells,  
MCF-7 cells, A549 cells

**IHC :** mouse brain tissue,

**IF/ICC :** HepG2 cells, HeLa cells, MCF-7 cells

## Background Information

The ATM protein is a member of the phosphatidylinositol 3-kinase family of proteins that respond to DNA damage by phosphorylating key substrates involved in DNA repair and/or cell cycle control. It is involved in mitogenic signal transduction, meiotic recombination, detection of DNA damage, and cell cycle control.

## 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**

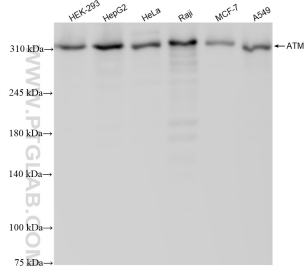
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

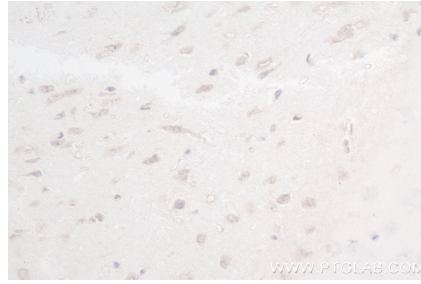
E: proteintech@ptglab.com  
W: ptglab.com

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

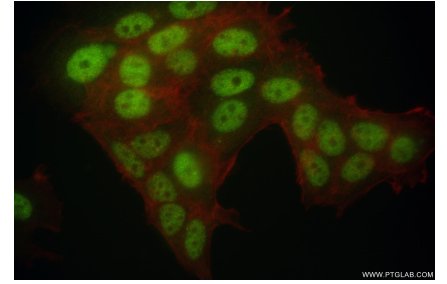
## Selected Validation Data



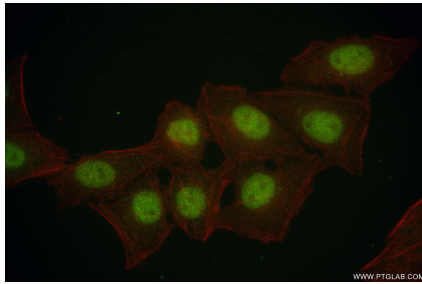
Various lysates were subjected to SDS PAGE followed by western blot with 83608-5-RR (ATM antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



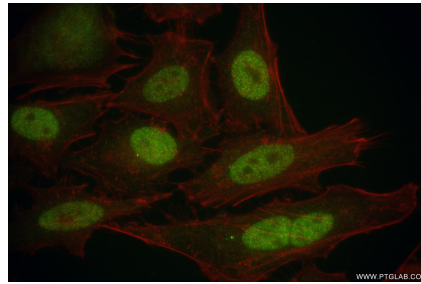
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83608-5-RR (ATM antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



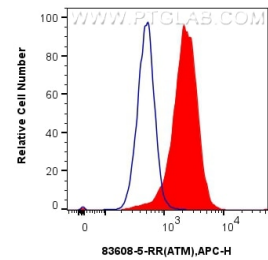
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using ATM antibody (83608-5-RR, Clone: 240560F5) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



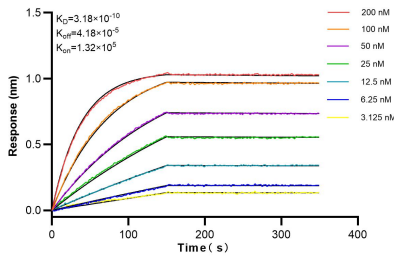
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ATM antibody (83608-5-RR, Clone: 240560F5) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ATM antibody (83608-5-RR, Clone: 240560F5) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug ATM Recombinant antibody (83608-5-RR, Clone:240560F5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83608-5-RR against Human ATM were performed. The affinity constant is 0.318 nM.