

For Research Use Only

# MATR3 Polyclonal antibody

Catalog Number: 12202-2-AP **11 Publications**



## Basic Information

<b>Catalog Number:</b> 12202-2-AP	<b>GenBank Accession Number:</b> BC015031	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 350 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 9782	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:250-1:1000 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> matrin 3	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 847 aa, 95 kDa	
<b>Immunogen Catalog Number:</b> AG2843	<b>Observed MW:</b> 125 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : MCF-7 cells, IHC : human lung cancer tissue, mouse testis tissue IF : SH-SY5Y cells, HEK-293 cells
<b>Cited Applications:</b> IF, IHC, IP, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, 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

MATR3, known as KIAA0723, is an 847 amino acid protein, which may play a role in transcription or may interact with other nuclear matrix proteins to form the internal fibrogranular network. MATR3 was originally identified as a nuclear matrix protein containing both DNA and RNA binding domains (PMID: 2033075) with a wide variety of functions ranging from DNA damage response to transcriptional and post-transcriptional regulation of cellular and viral RNAs (PMID: 21771346). The calculated molecular weight of MATR3 is 94 kDa, but we detect a 125 kDa protein as a result of PMID: 28977530.

## Notable Publications

Author	Pubmed ID	Journal	Application
Haiyan An	31636118	J Cell Biol	WB
Hiroaki Suzuki	31582731	Cell Death Dis	WB
Zewei Sun	36368640	Clin Immunol	WB,IF,IP

## Storage

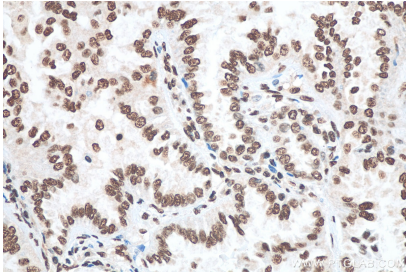
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

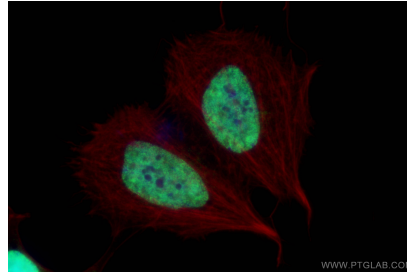
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

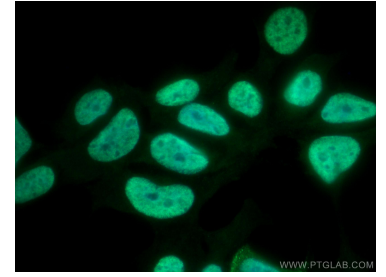
## Selected Validation Data



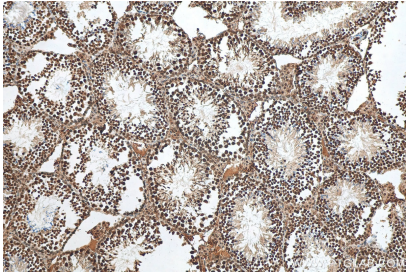
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12202-2-AP (MATR3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



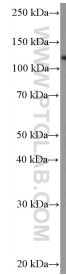
Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using MATR3 antibody (12202-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using MATR3 antibody (12202-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 12202-2-AP (MATR3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



MCF-7 cells were subjected to SDS PAGE followed by western blot with 12202-2-AP (MATR3 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.