

For Research Use Only

# AGER/RAGE Polyclonal antibody

Catalog Number: 16346-1-AP

Featured Product

41 Publications



## Basic Information

### Catalog Number:

16346-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9540

### GenBank Accession Number:

BC020669

### GeneID (NCBI):

177

### UNIPROT ID:

Q15109

### Full Name:

advanced glycosylation end product-specific receptor

### Calculated MW:

404 aa, 43 kDa

### Observed MW:

43 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:2000-1:8000

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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: mouse lung tissue, rat lung tissue

IHC: mouse lung tissue, human lung tissue, human renal cell carcinoma tissue

IF-P: mouse lung tissue,

## Background Information

Advanced glycosylation end product-specific receptor (AGER, also known as RAGE) is a member of the immunoglobulin superfamily of cell surface receptors, which interacts with distinct families of ligands, mediating diverse functions in a broad array of cell types including cellular migration, proliferation, survival and apoptosis (PMID: 12645002; 17425919). It senses endogenous stress signals with a broad ligand repertoire including advanced glycation end products, S100 proteins, high-mobility group box 1 protein/HMGB1, amyloid beta/APP oligomers, nucleic acids, phospholipids and glycosaminoglycans (PMID: 19910580; 28627626). It interacts with distinct molecules implicated in homeostasis, development, inflammation, and certain diseases such as diabetes and Alzheimer's disease (PMID: 26253613; 31079281).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuxing Zhao	30246940	J Cell Mol Med	WB,IF
Qing-Qing Qian	31520526	J Neurochem	
Shilong Zhang	33013386	Front Pharmacol	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

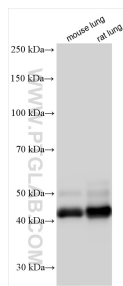
For technical support and original validation data for this product please contact:

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

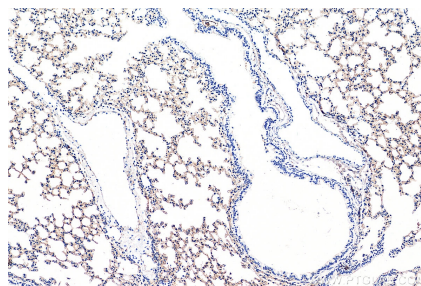
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

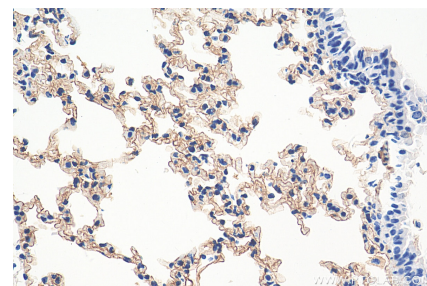
## Selected Validation Data



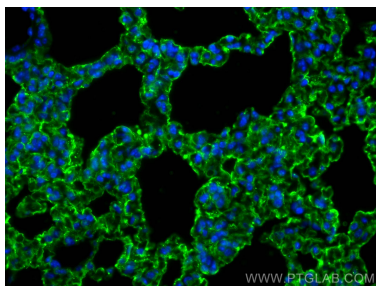
Various lysates were subjected to SDS PAGE followed by western blot with 16346-1-AP (AGER/RAGE antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 16346-1-AP (AGER/RAGE antibody) at dilution of 1:4000 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 16346-1-AP (AGER/RAGE antibody) at dilution of 1:4000 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse lung tissue using AGER/RAGE antibody (16346-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).