

For Research Use Only

# RAGE Recombinant antibody

Catalog Number: 83742-5-RR



## Basic Information

### Catalog Number:

83742-5-RR

### Size:

1000 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_007425.3

### GeneID (NCBI):

11596

### UNIPROT ID:

Q62151-1

### Full Name:

advanced glycosylation end product-specific receptor

### Calculated MW:

43 kDa

### Observed MW:

42-55 kDa

### Purification Method:

Protein A purification

### CloneNo.:

240774F11

### Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:250-1:1000

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

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 : rat lung tissue, mouse lung tissue

IHC : mouse lung tissue,

IF-P : mouse lung tissue,

## Background Information

The receptor for advanced glycation end products (RAGE) is a cell surface transmembrane multiligand receptor, also known as Ager, is a multiligand member of the immunoglobulin superfamily. It has many isoforms and is predominantly expressed in the lung. AGER expression is upregulated in many diseases such as Alzheimer's disease, diabetes mellitus, atherosclerosis, and rheumatoid arthritis (PMID: 35099614).

## 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:

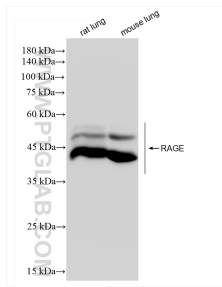
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

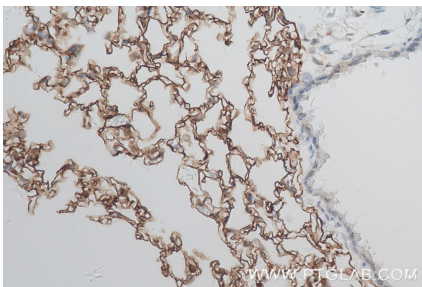
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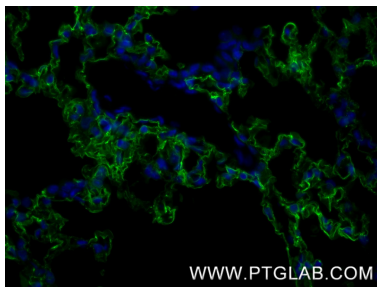
Selected Validation Data



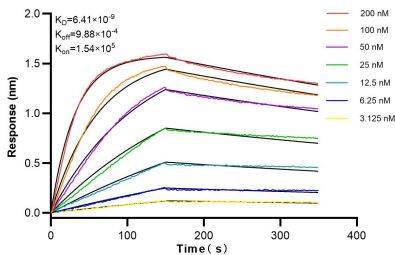
Various lysates were subjected to SDS PAGE followed by western blot with 83742-5-RR (RAGE antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83742-5-RR (Ager/Rage 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 paraffin-embedded mouse lung tissue using Ager/Rage antibody (83742-5-RR, Clone: 240774F 11 ) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83608-4-RR against Human ATM were performed. The affinity constant is 2.58 nM. Biolayer interferometry (BLI) kinetic assays of 83608-4-RR against Mouse RAGE were performed. The affinity constant is 6.41 nM.