

For Research Use Only

AGER/RAGE Recombinant antibody

Catalog Number:83759-5-RR



Basic Information

Catalog Number: 83759-5-RR	GenBank Accession Number: GeneID (NCBI): 81722 UNIPROT ID: Q63495	Purification Method: Protein A purification
Size: 800 µg/ml	Full Name: advanced glycosylation end product-specific receptor	CloneNo.: 240706C3
Source: Rabbit	Calculated MW: 43 kDa	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000
Isotype: IgG	Observed MW: 43 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : mouse colon tissue, mouse heart tissue IHC : mouse lung tissue,
Species Specificity: 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	

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).

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:

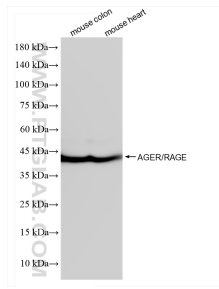
T: 4006900926

E: Proteintech-CN@ptglab.com

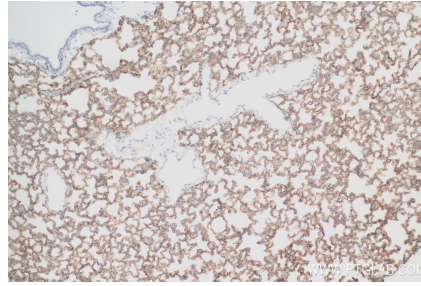
W: ptgcn.com

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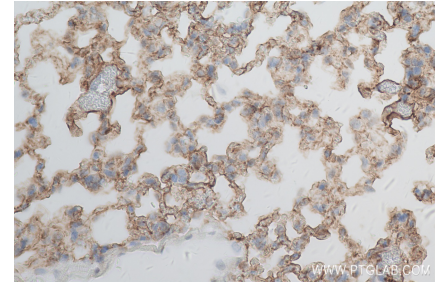
Selected Validation Data



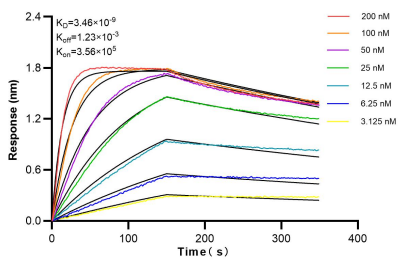
Various lysates were subjected to SDS PAGE followed by western blot with 83759-5-RR (RAGE antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83759-5-RR (RAGE antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83759-5-RR (RAGE antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83759-5-RR against Rat AGER/RAGE were performed. The affinity constant is 3.46 nM.