

For Research Use Only

AGER/RAGE Recombinant antibody

Catalog Number: 83759-4-RR



Basic Information

Catalog Number: 83759-4-RR	GenBank Accession Number: 81722	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 81722	CloneNo.: 240706F7
Source: Rabbit	UNIPROT ID: Q63495	Recommended Dilutions: WB 1:2000-1:10000 IF-P 1:200-1:800
Isotype: IgG	Full Name: advanced glycosylation end product-specific receptor	
	Calculated MW: 43 kDa	
	Observed MW: 45 kDa, 58 kDa	

Applications

Tested Applications: WB, IF-P, ELISA	Positive Controls: WB : rat lung tissue, IF-P : rat brain tissue,
Species Specificity: rat	

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:

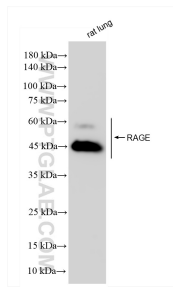
T: 4006900926

E: Proteintech-CN@ptglab.com

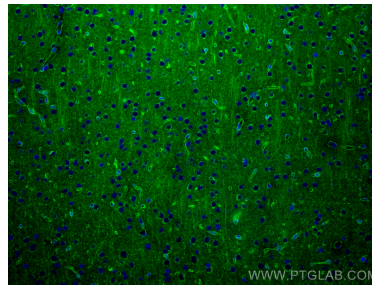
W: ptgcn.com

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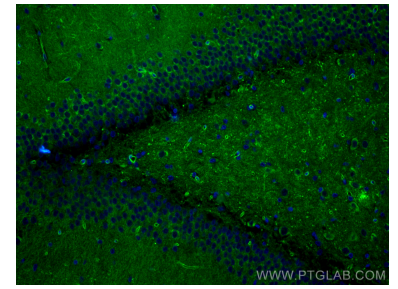
Selected Validation Data



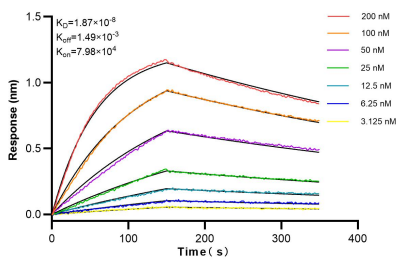
rat lung tissue were subjected to SDS PAGE followed by western blot with 83759-4-RR (RAGE antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using AGER antibody (83759-4-RR, Clone: 240706F7) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using AGER antibody (83759-4-RR, Clone: 240706F7) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83759-4-RR against Mouse AGER were performed. The affinity constant is below 1 pM.