

For Research Use Only

Rat AGER/RAGE Recombinant antibody, PBS Only

Catalog Number: 83759-4-PBS



Basic Information

Catalog Number:	83759-4-PBS	GenBank Accession Number:	Purification Method:
Size:	1 mg/ml	GeneID (NCBI):	Protein A purification
Source:	Rabbit	81722	CloneNo.:
Isotype:	IgG	UNIPROT ID:	240706F7
		Q63495	
		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
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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

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

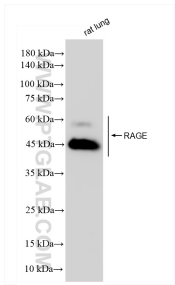
T: 4006900926

E: Proteintech-CN@ptglab.com

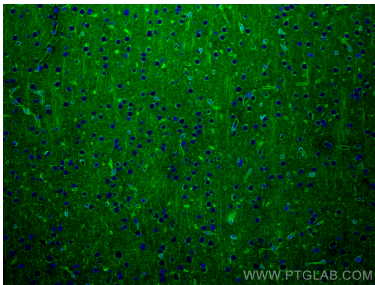
W: ptgcn.com

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

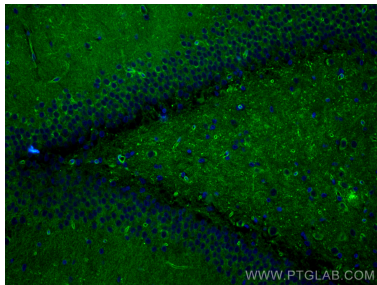
Selected Validation Data



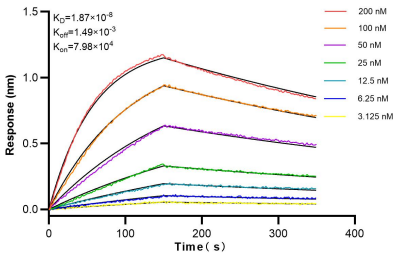
rat lung tissue were subjected to SDS PAGE followed by western blot with 83759-4-RR (RAGE antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83759-4-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83759-4-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83759-4-PBS in a different storage buffer formulation.



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