

For Research Use Only

AGER/RAGE Polyclonal antibody

Catalog Number: 16346-1-AP

Featured Product

41 Publications



Basic Information

Catalog Number:

16346-1-AP

Concentration:

800 ug/ml

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

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

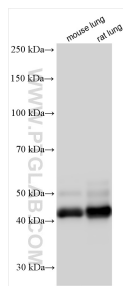
T: 4006900926

E: Proteintech-CN@ptglab.com

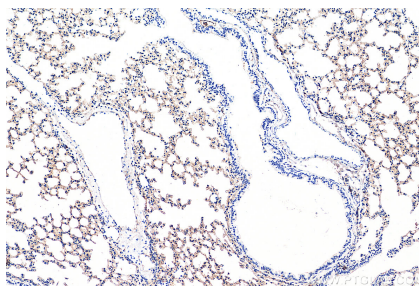
W: ptgcn.com

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

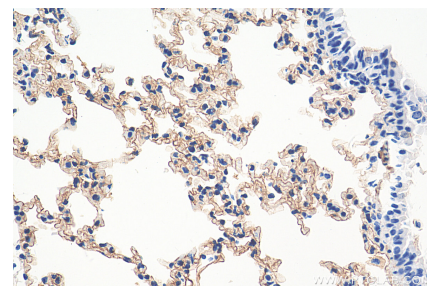
Selected Validation Data



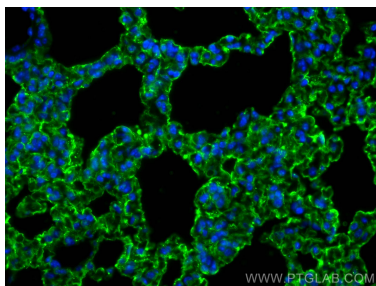
Various lysates were subjected to SDS PAGE followed by western blot with 16346-1-AP (AGER/RAGE antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).