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Datasheet for ABIN3043529
anti-RAGE antibody (N-Term)

4 Images

8 Publications

Overview

Quantity:	100 µg
Target:	RAGE (AGER)
Binding Specificity:	AA 91-120, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAGE antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Advanced glycosylation end product-specific receptor (AGER) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human RAGE (91-120aa IQDEGIFRCQAMNRNGKETKSNYRVRVYQI), different from the related mouse and rat sequences by six amino acids.
Sequence:	IQDEGIFRCQ AMNRNGKETK SNYRVRVYQI
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Advanced glycosylation end product-specific receptor (AGER) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: advanced glycosylation end product-specific receptor

Product Details

Protein Name: Advanced glycosylation end product-specific receptor

Purification: Immunogen affinity purified.

Target Details

Target: RAGE (AGER)

Alternative Name: AGER ([AGER Products](#))

Background: The receptor for advanced glycation end products (RAGE) is a multi-ligand member of the immunoglobulin superfamily of cell surface molecules. It interacts with distinct molecules implicated in homeostasis, development and inflammation, and certain diseases such as diabetes and Alzheimer's disease. RAGE is also a central cell surface receptor for amphoterin and EN-RAGE. And RAGE is associated with sustained NF-kappaB activation in the diabetic microenvironment and has a central role in sensory neuronal dysfunction. Moreover, RAGE propagates cellular dysfunction in several inflammatory disorders and diabetes, and it also functions as an endothelial adhesion receptor promoting leukocyte recruitment.

Synonyms: Advanced glycosylation end product-specific receptor antibody|AGER antibody|MGC2235 antibody|MGC22357 antibody|RAGE_HUMAN antibody|Receptor for advanced glycation endproducts antibody|Receptor for advanced glycosylation end products antibody

Gene ID: 177

UniProt: [Q15109](#)

Pathways: [Carbohydrate Homeostasis](#), [Toll-Like Receptors Cascades](#), [Smooth Muscle Cell Migration](#), [S100 Proteins](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

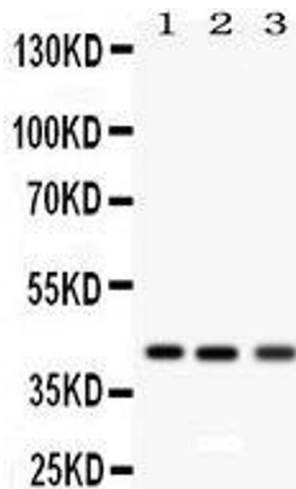
Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

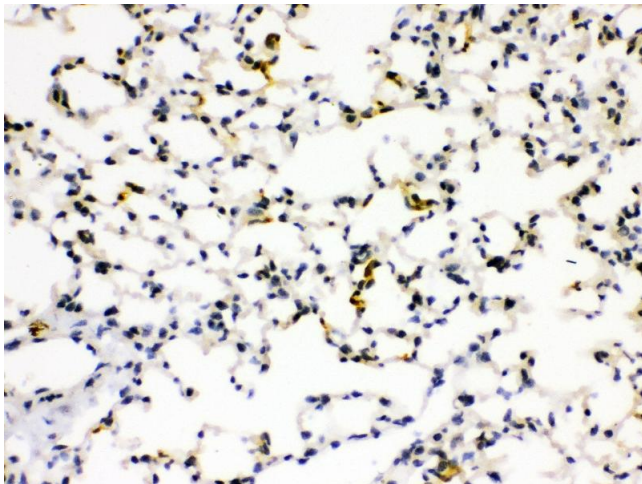
Product cited in: Yu, Chen, Jiang: "Administration of pigment epithelium-derived factor delivered by adeno-associated virus inhibits blood-retinal barrier breakdown in diabetic rats." in: **Molecular vision**, Vol. 16, pp. 2384-94, (2011) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



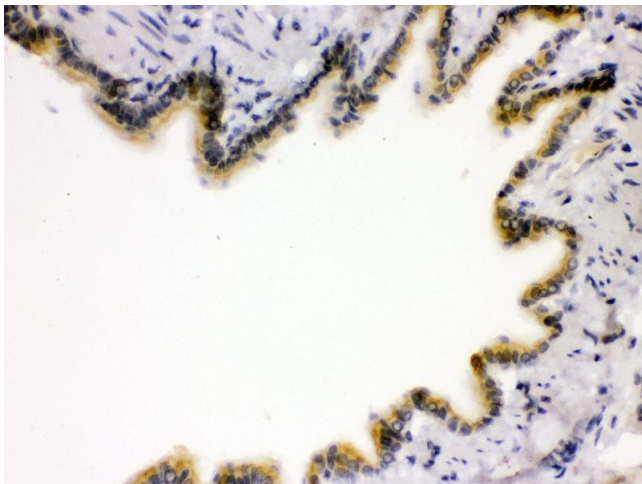
Western Blotting

Image 1. Anti- RAGE Picoband antibody, Western blotting All lanes: Anti RAGE at 0.5ug/ml Lane 1: Rat Lung Tissue Lysate at 50ug Lane 2: RH35 Whole Cell Lysate at 40ug Lane 3: HELA Whole Cell Lysate at 40ug Predicted bind size: 43KD Observed bind size: 43KD



Immunohistochemistry

Image 2. Anti- RAGE Picoband antibody, IHC(P) IHC(P): Mouse Lung Tissue



Immunohistochemistry

Image 3. Anti- RAGE Picoband antibody, IHC(P) IHC(P): Rat Lung Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043529.