

Product datasheet

Anti-RAGE antibody [EPR12206] ab172473

Recombinant RabMAb

[6 References](#) [2 Images](#)

Overview

Product name	Anti-RAGE antibody [EPR12206]
Description	Rabbit monoclonal [EPR12206] to RAGE
Host species	Rabbit
Specificity	<p>Recent tests in our laboratory showed that the antibody detects the band of interest in tissue lysates, but it did not detect the protein in cell lysate.</p> <p>RAGE is typically expressed at low levels under normal physiological conditions in majority of tissues except normal lung tissue. When testing other tissues, please use lung tissue as a positive control.</p>
Tested applications	<p>Suitable for: WB</p> <p>Unsuitable for: ICC/IF, IHC-P or IP</p>
Species reactivity	<p>Reacts with: Mouse, Rat</p> <p>Does not react with: Human</p>
Immunogen	<p>Synthetic peptide within Human RAGE aa 350 to the C-terminus (Cysteine residue). The exact sequence is proprietary.</p> <p>Database link: Q15109</p>
Positive control	Mouse lung, Rat lung.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12206
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab172473 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 42 kDa. We recommend ab181369 for human samples.

Application notes Is unsuitable for ICC/IF, IHC-P or IP.

Target

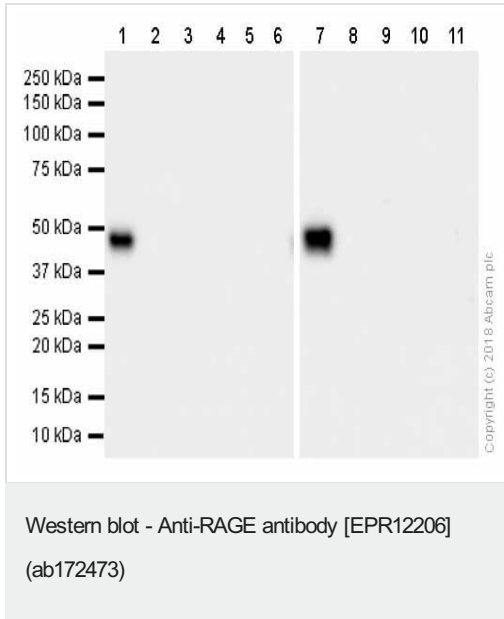
Function Mediates interactions of advanced glycosylation end products (AGE). These are nonenzymatically glycosylated proteins which accumulate in vascular tissue in aging and at an accelerated rate in diabetes. Acts as a mediator of both acute and chronic vascular inflammation in conditions such as atherosclerosis and in particular as a complication of diabetes. AGE/RAGE signaling plays an important role in regulating the production/expression of TNF-alpha, oxidative stress, and endothelial dysfunction in type 2 diabetes. Interaction with S100A12 on endothelium, mononuclear phagocytes, and lymphocytes triggers cellular activation, with generation of key proinflammatory mediators. Interaction with S100B after myocardial infarction may play a role in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling (By similarity). Receptor for amyloid beta peptide. Contributes to the translocation of amyloid-beta peptide (ABPP) across the cell membrane from the extracellular to the intracellular space in cortical neurons. ABPP-initiated RAGE signaling, especially stimulation of p38 mitogen-activated protein kinase (MAPK), has the capacity to drive a transport system delivering ABPP as a complex with RAGE to the intraneuronal space.

Tissue specificity Endothelial cells.

Sequence similarities Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Cellular localization Secreted and Cell membrane.

Images



All lanes : Anti-RAGE antibody [EPR12206] (ab172473) at 1/1000 dilution

Lane 1 : Mouse lung lysates

Lane 2 : Mouse brain lysates

Lane 3 : Mouse kidney lysates

Lane 4 : Mouse heart lysates

Lane 5 : Mouse liver lysates

Lane 6 : Mouse spleen lysates

Lane 7 : Rat lung lysates

Lane 8 : Rat brain lysates with 5% NFDm/TBST

Lane 9 : Rat kidney lysates

Lane 10 : Rat heart lysates

Lane 11 : Rat spleen lysates

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 42 kDa

Observed band size: 43 kDa

Blocking and dilution buffer: 5% NFDm/TBST.


Exposure time:

Lane 1 to 6: 3 second

Lane 7 to 11: 20 seconds

The expression profile and molecular mass observed is consistent with what has been described in the literature (PMID: 16315007; 18355449; 18245812)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-RAGE antibody [EPR12206] (ab172473)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors