BOSTER BIOLOGICAL TECHNOLOGY
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Anti-RAGE/AGER Antibody Picoband®

Catalog Number: PB9469

About AGER

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.

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Overview

Product Name	Anti-RAGE/AGER Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RAGE/AGER Antibody Picoband® catalog # PB9469. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q15109

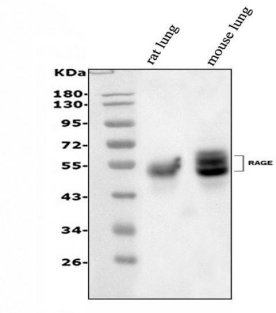
Technical Details

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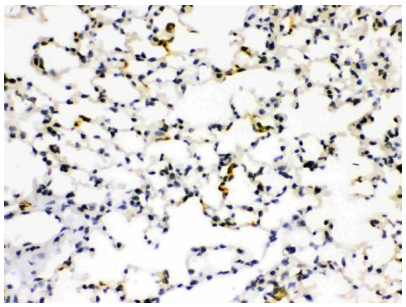
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human RAGE, different from the related mouse and rat sequences by six amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Western blot, 0.1-0.5ug/ml, Human, Rat

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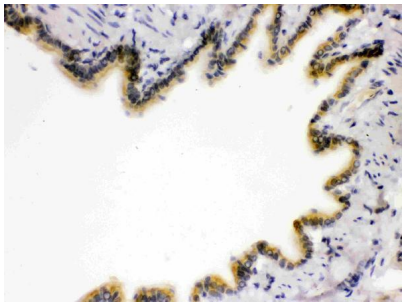
Anti-RAGE/AGER Antibody Picoband® (PB9469) Images



Western blot analysis of RAGE/AGER using anti-RAGE/AGER antibody (PB9469). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat lung tissue lysates, Lane 2: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RAGE/AGER antigen affinity purified polyclonal antibody (PB9469) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for RAGE/AGER at approximately 45-55 kDa. The expected band size for RAGE/AGER is at 43 kDa.



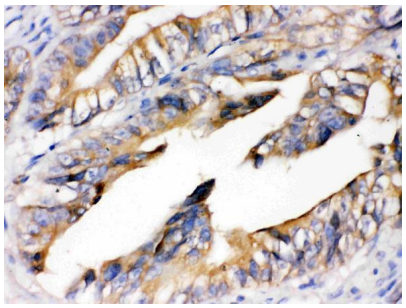
IHC analysis of RAGE using anti-RAGE antibody (PB9469). RAGE was detected in a paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-RAGE Antibody (PB9469) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of RAGE using anti-RAGE antibody (PB9469). RAGE was detected in a paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-RAGE Antibody (PB9469) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

IHC analysis of RAGE using anti-RAGE antibody (PB9469). RAGE was detected in a paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-RAGE Antibody (PB9469) overnight at 4°C.

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Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

7 Publications Citing This Product

1. PubMed ID: 20043889, Wang L, Zhang X, Liu L, Cui L, Yang R, Li M, Du W. Brain Res. 2010 Mar 19;1321:143-51. Doi: 10.1016/J.Brainres.2009.12.046. Epub 2010 Jan 4. Tanshinone Ii A Down-Regulates Hmgb1, Rage, Tlr4, Nf-Kappab Expression, Ameliorates Bbb Permeability And E...

2. PubMed ID: 20100543, Wang L, Zhang X, Liu L, Yang R, Cui L, Li M. Neurosci Lett. 2010 Mar 8;471(3):152-6. Doi: 10.1016/J.Neulet.2010.01.030. Epub 2010 Jan 25. Atorvastatin Protects Rat Brains Against Permanent Focal Ischemia And Downregulates Hmgb1, Hmgb1 Receptors (R...

3. PubMed ID: 23875897, Liu J, Wang S, Feng L, Ma D, Fu Q, Song Y, Jia X, Ma S. J Med Food. 2013 Jul;16(7):577-86. Doi: 10.1089/Jmf.2012.2654. Hypoglycemic And Antioxidant Activities Of Paeonol And Its Beneficial Effect On Diabetic Encephalopathy In Streptozotocin-Induce...

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