

Anti-RAGE/AGER Antibody

Catalog Number: PA1069

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. 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.

Overview

Product Name	Anti-RAGE/AGER Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RAGE/AGER Antibody catalog # PA1069. Tested in IHC, IHC-F, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, IHC-F, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human RAGE, different from the related mouse and rat sequences by two amino acids.
Predicted Reactive Species	Hamster
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) and IHC(F).
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Frozen Section), 0.5-1ug/ml</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, By Heat</p> <p>Western blot, 0.1-0.5ug/ml</p>

Anti-RAGE/AGER Antibody (PA1069) Images

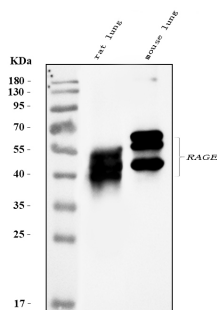


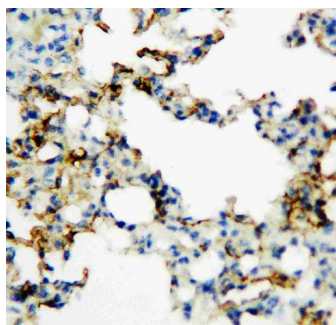
Figure 1. Western blot analysis of RAGE using anti-RAGE antibody (PA1069).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 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 antigen affinity purified polyclonal antibody (Catalog # PA1069) 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 at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for RAGE at approximately 43 kDa. The expected band size for RAGE is at 43 kDa.



Anti-RAGE antibody, PA1069, IHC(P)
IHC(P): Rat Lung Tissue

7 Publications Citing This Product

1. PubMed ID: 27026909, Ethyl pyruvate attenuated coxsackievirus B3-induced acute viral myocarditis by suppression of HMGB1/RAGE/NF- κ B pathway
2. PubMed ID: 28486941, Wang F, He Q, Wang J, Yuan Q, Guo H, Chai L, Wang S, Hu L, Zhang Y. BMC Complement Altern Med. 2017 May 10;17(1):258. doi: 10.1186/s12906-017-1738-8. Neuroprotective effect of salvianolate lyophilized injection against cerebral ischemia in type 1 ...
3. PubMed ID: 28223765, Li JY, Lu YH, Zhang LW, Zhou PM, Chen T. Ann Dermatol. 2017 Feb;29(1):121-123. doi: 10.5021/ad.2017.29.1.121. Epub 2017 Feb 3. Increased Serum High Mobility Group Box 1 (HMGB1) Concentration and the Altered Expression of HMGB1 and Its Receptor Adv...

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