

bsm-52809R**[Primary Antibody]****BioSS**
ANTIBODIES

www.bioss.com.cn

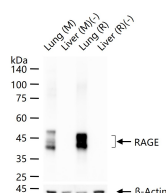
sales@bioss.com.cn

techsupport@bioss.com.cn

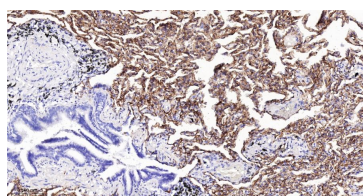
400-901-9800

RAGE Recombinant Rabbit mAb**— DATASHEET —**

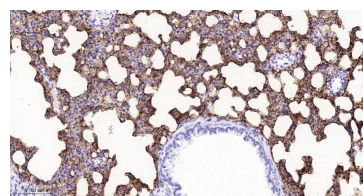
Host: Rabbit	Isotype: IgG	Applications: WB (1:1000-2000) IHC-P (1:200-1000) IHC-F (1:200-1000) IF (1:200-1000) Reactivity: Human, Mouse, Rat Predicted MW.: 42 kDa Observed MW.: 40-45 kDa Subcellular Location: Secreted ,Cell membrane
Clonality: Recombinant	CloneNo.: 8G4	
GeneID: 11596	SWISS: Q62151	
Target: RAGE		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: Advanced glycosylation end product-specific receptor (AGER; RAGE) is a member of the immunoglobulin superfamily of cell surface molecules that binds molecules that have been irreversibly modified by non-enzymatic glycation and oxidation, and are known as advanced glycation end products (AGEs). It is expressed by endothelium, mononuclear phagocytes, neurons and smooth muscle cells. Whereas RAGE is present at high levels during development, especially in the central nervous system, its levels decline during maturity. The increased expression of RAGE is associated with several pathological states, such as diabetic vasculopathy, neuropathy, retinopathy and other disorders, including Alzheimer's disease and immune/inflammatory reactions of the vessel walls. In diabetic tissues, the production of RAGE is due to the overproduction of AGEs that eventually overwhelm the protective properties of RAGE. This results in oxidative stress and endothelial cell dysfunction that leads to vascular disease in diabetics. In the brain, RAGE also binds amyloid beta (Ab). Because Ab is overproduced in neurons and vessels in the brains of Alzheimer disease, this leads to the hyperstimulation of RAGE. The RAGE-Ab interaction is thought to result in oxidative stress leading to neuronal degeneration.		

— VALIDATION IMAGES —

25 ug total protein per lane of various lysates (see on figure) probed with RAGE monoclonal antibody, unconjugated (bsm-52809R) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with RAGE Monoclonal Antibody, Unconjugated (bsm-52809R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with RAGE Monoclonal Antibody, Unconjugated (bsm-52809R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=5.4]** Chang-chang Wang. et al. Gleditsiae sinensis fructus Pills combined with Jujubae fructus attenuate chronic bronchitis via regulation of AGE-RAGE signaling pathway. J ETHNOPHARMACOL. 2024 Jan;319:117191 IHC ;Mouse. 37717840

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=4.2]** Hai-Ming Sun. et al. Bruceine A attenuates fibrogenesis and inflammation through NR2F2-regulated HMGB1 inflammatory signaling cascades in hepatic fibrosis. EUR J PHARMACOL. 2024 Nov;;177164 WB ;Mouse,Rat,Human. 39615868
- **[IF=0]** Hernandez Ivana. et al. Identifying and establishing the critical elements of a human cardiac in-vitro model for studying type-II diabetes. Discover Applied Sciences. 2025 Jul;7(7):1-26 IF ;Human. 40678470