

RABBIT ANTI- RAGE AFFINITY PURIFIED POLYCLONAL ANTIBODY

CATALOG NUMBER:	AB9714	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	1 mg/mL
ALTERNATE NAMES:	Receptor for Advanced Glycation Endproducts; AGER, advanced glycosylation end product-specific receptor	EPI TOPE:	
HOST/ISOTYPE:	Rabbit IgG		
BACKGROUND:	The Receptor for Advanced Glycation Endproducts (RAGE) is a member of the Immunoglobulin superfamily of cell surface markers. Unlike most receptors, RAGE is able to interact with different ligand molecules, including: advanced glycation endproducts or AGEs (molecules that accumulate in blood vessels and tissues in patients with diabetes), amyloids, amphoterin (a molecule associated with tumors), and many others like S100 part of a family of inflammatory mediators). Research has shown that the accumulation of RAGE ligands in many biological systems (endothelium mononuclear phagocytes, neurons and smooth muscle cells) can lead to destructive tissue diseases such as diabetic retinopathy, amyloidoses, tumors and inflammation disorders. RAGE is expressed by endothelium mononuclear phagocytes, smooth muscle and neurons.		
SPECIFICITY:	RAGE protein. By Western blot the antibody recognizes a band at ~48-50 kDa in extracts from bovine and mouse lungs and in HeLa cells expressing human soluble RAGE. Immunogen location predicts that the antibody should recognize both the full receptor as well as soluble RAGE.		
IMMUNOGEN:	A synthetic peptide from human RAGE containing amino acids 39-58 {KGAPKKPPQRLEWKLNTGRT}, GenBank protein sequence number NP_001127.		
APPLICATIONS:	Western blot: 1:1,000-1:2,500 on extracts from bovine and mouse lungs and in HeLa cells expressing human soluble RAGE. Flow cytometry: 1 µg/mL per million cells using a PE conjugated second antibody. ELISA: 1:10,000-1:50,000 against the immunogen peptide. Optimal working dilutions must be determined by the end user.		
SPECIES REACTIVITY:	Human, bovine and mouse. Other species have not been tested.		
CONTROL:	Tissue: diabetic kidney tissue; MDA-MB-231 cells (human breast adenocarcinoma); H1299, human lung carcinoma {Hsieh, H et al (2003) Biochem Biophys Res. Comm. 307(2):375-381 }.		
PRESENTATION:	Affinity purified immunoglobulin in PBS containing 0.1% sodium azide as a preservative.		



STORAGE/HANDLING: Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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