016

RAGE 1 (D1A12) Rabbit mAb



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #Q15109	Entrez-Gene Id: 177
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		RAGE 1 (D1A12) Rabbit mAb recognizes endogenous levels of total RAGE 1 protein.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human RAGE 1 protein.				
Background		The receptor for advanced glycation end products (RAGE) is a member of the immunoglobulin (Ig) superfamily. It can be expressed as full-length, membrane-bound RAGE isoform 1 or as a secreted sRAGE protein that lacks a transmembrane domain (1). RAGE is detected during early developmental stages and in the lung under normal physiological conditions (2), and it is upregulated at sites of inflammation (3). Advanced glycation end products (AGEs) and a variety of other ligands interact with this receptor (1). Ligand binding activates full-length RAGE and initiates downstream signaling pathways that include activation of NF-kB, which leads to production of pro-inflammatory cytokines and inflammation (4). Activation of these pathways has been implicated in various disease states including Alzheimer's disease, diabetes, arthritis, and atherosclerosis (4). Soluble RAGE can competitively bind RAGE ligands in the extracellular environment, which prevents ligand interaction with full-length RAGE at the cell surface (1).				
Background References		 Bierhaus, A. et al. (2005) J Mol Med 83, 876-86. Brett, J. et al. (1993) Am J Pathol 143, 1699-712. Sparvero, L.J. et al. (2009) J Transl Med 7, 17. Lin, L. et al. (2009) Front Biosci 14, 1403-13. 				
Species Reactiv	ity	Species reactivity is d	etermined by testin		- d di di (
				g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20	tern blots, incubate	membrane with diluted		,
Western Blot B			tern blots, incubate	membrane with diluted		,
	y	TBS, 0.1% Tween® 20	tern blots, incubate	membrane with diluted		•

more information.

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