

Rat RAGE ELISA Kit | AGER elisa kit

Rat RAGE PicoKine ELISA Kit

CATALOG #
AAA45943

REACTIVITY
Rat

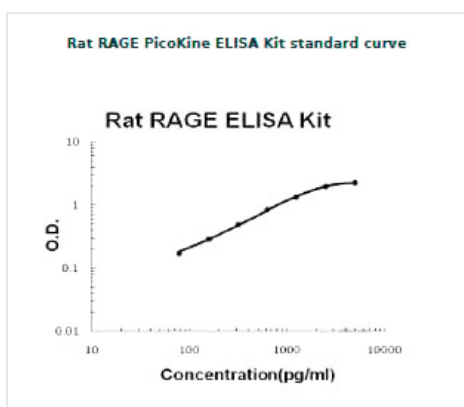
PRODUCT SYNONYMS

RAGE; Rat RAGE PicoKine ELISA Kit; Advanced glycosylation end product-specific receptor; advanced glycosylation end product-specific receptor; Advanced glycosylation end product specific receptor; Ager; DAMA 358M23.4; LE 9211 A antigen; MAPK MAK MRK overlapping kinase; MGC22357; MOK; OTTHUMP00000174885; RAGE 1; RAGE_HUMAN; RAGE1; Receptor for advanced glycation end products; Receptor for advanced glycosylation end products; Renal tumor antigen; Renal tumor antigen 1; AGER elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Ager
Sequence Length	402
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, edta)
Detection Range	78 pg/ml - 5,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AGER elisa kit	Principle of the Assay: The Picokine™ Rat Ager Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Rat Ager with a 96-well strip plate that is pre-coated with antibody specific for Ager. The detection antibody is a biotinylated antibody specific for Ager. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Rat Ager with immunogen: Expression system for standard: NS0; Immunogen sequence: Q24-A342. The kit is analytically validated with ready-to-use reagents. To measure Rat Ager, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Rat Ager in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat Ager in the sample. Background/Introduction: RAGE, the Receptor for Advanced Glycation Endproducts, is a 35kD transmembrane receptor of the immunoglobulin super family. It is also known as "AGER". AGER gene is mapped to chromosome 6p21.3 by mapping by contiguous cosmids and YAC clones and by fluorescence in situ hybridization. The expression of RAGE is particularly increased in neurons close to deposits of amyloid beta peptide and to neurofibrillary tangles. RAGE has been linked to several chronic diseases, which are thought to result from vascular damage. The pathogenesis is hypothesized to include ligand binding upon which RAGE signals activation of the nuclear factor kappa B (NF-kappaB).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2497319
NCBI GeneID	81722
UniProt Accession #	Q63495
Molecular Weight	42,664 Da
NCBI Official Full Name	Advanced glycosylation end product-specific receptor
NCBI Official Synonym Full Names	advanced glycosylation end product-specific receptor
NCBI Official Symbol	Ager
NCBI Official Synonym Symbols	RAGE
NCBI Protein Information	advanced glycosylation end product-specific receptor; receptor for advanced glycosylation end products; advanced glycosylation end product-specific receptor variant 2; advanced glycosylation end product-specific receptor variant 3; advanced glycosylation end product-specific receptor variant 4; advanced glycosylation end product-specific receptor variant 5
UniProt Protein Name	Advanced glycosylation end product-specific receptor
UniProt Gene Name	Ager
UniProt Synonym Gene Names	Rage
UniProt Entry Name	RAGE_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.