

Datasheet for KOA0599**Rat RAGE ELISA Kit****Overview**

Description:	Rat RAGE AccuSignal ELISA Kit - KOA0599
Item No.:	KOA0599
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	78 pg/ml - 5000 pg/ml

Product Details

Background:	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).
Synonyms:	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 isoform NtRAGE-delta, RAGE isoform sRAGE-delta, RAGE_HUMAN, RAGE1, Receptor for advanced glycation end products, receptor for advanced glycation end-products variant 20, Receptor for advanced glycosylation end products, Renal tumor antigen, Renal tumor antigen, Renal tumor antigen 1
Detection Kit Type:	ELISA Kit
Detection Range:	78 pg/ml - 5000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	AGER
Reactivity:	Rat

Immunogen:	Expression system for standard: NSO; Immunogen sequence: Q24-A342
Purity/Specificity:	Natural and recombinant rat RAGE. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q63495 • NCBI - NP_445788.2 • GenelD - 81722 • KOA0599 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml, 78pg/ml rat RAGE standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat cell culture supernatants, serum or plasma(heparin, EDTA) to each empty well. We recommend that each rat RAGE standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	78 pg/ml-5000 pg/ml
Other:	DOE: 2-8° C - 05/10/2022 -20° C - 11/10/2022

Formulation

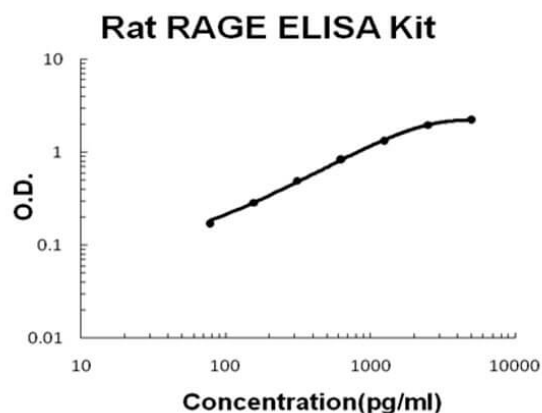
Concentration:	1 kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images



ELISA

Rat RAGE AccuSignal ELISA Kit standard curve. Assay
Range: 78pg/ml-5000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.