

ARG66282 anti-RAGE antibody [SQab1745]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SQab1745] recognizes RAGE
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	SQab1745
Isotype	IgG1
Target Name	RAGE
Species	Human
Immunogen	Recombinant Human RAGE protein.
Conjugation	Un-conjugated
Alternate Names	Receptor for advanced glycosylation end products; Advanced glycosylation end product-specific receptor; RAGE

Application Instructions

Application table	Application	Dilution
	ELISA	1:3000 - 1:10000
	FACS	1:400 - 1:1000
	ICC/IF	1:400 - 1:1000
	IHC-P	1:3000 - 1:10000
	WB	1:2500 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Buffer	PBS (pH 7.4) and 0.01% Thimerosal.
Preservative	0.01% Thimerosal
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

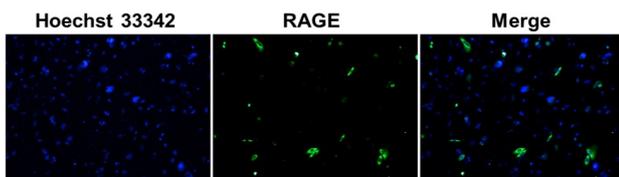
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

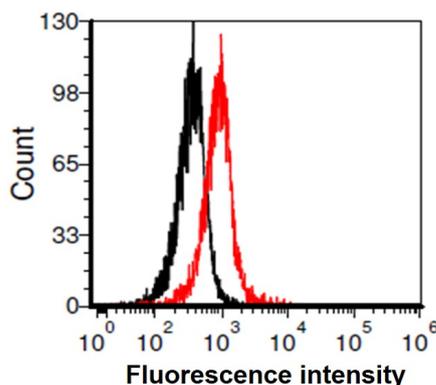
Gene Symbol	AGER
Gene Full Name	advanced glycosylation end product-specific receptor
Background	RAGE: Advanced glycosylation end product (AGE) receptor is a member of the immunoglobulin superfamily of cell surface receptors. It is a multiligand receptor, and besides AGE, interacts with other molecules implicated in homeostasis, development, and inflammation, and certain diseases, such as diabetes and Alzheimer's disease. Many alternatively spliced transcript variants encoding different isoforms, as well as non-protein-coding variants, have been described for this gene (PMID:18089847). [provided by RefSeq, May 2011]
Function	RAGE Mediates interactions of advanced glycosylation end products (AGE). These are nonenzymatically glycosylated proteins which accumulate in vascular tissue in aging and at an accelerated rate in diabetes. Acts as a mediator of both acute and chronic vascular inflammation in conditions such as atherosclerosis and in particular as a complication of diabetes. AGE/RAGE signaling plays an important role in regulating the production/expression of TNF-alpha, oxidative stress, and endothelial dysfunction in type 2 diabetes. Interaction with S100A12 on endothelium, mononuclear phagocytes, and lymphocytes triggers cellular activation, with generation of key proinflammatory mediators. Interaction with S100B after myocardial infarction may play a role in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling. Receptor for amyloid beta peptide. Contributes to the translocation of amyloid-beta peptide (ABPP) across the cell membrane from the extracellular to the intracellular space in cortical neurons. ABPP-initiated RAGE signaling, especially stimulation of p38 mitogen-activated protein kinase (MAPK), has the capacity to drive a transport system delivering ABPP as a complex with RAGE to the intraneuronal space. Can also bind oligonucleotides. [UniProt]
Highlight	Related products: RAGE antibodies ; RAGE ELISA Kits ; Anti-Mouse IgG secondary antibodies ;
Calculated Mw	43 kDa

Images



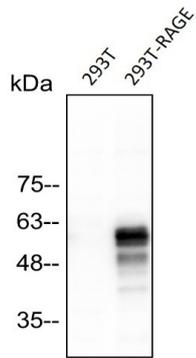
ARG66282 anti-RAGE antibody [SQab1745] ICC/IF image

Immunofluorescence: 293T cells were transfected with RAGE plasmid and fixed in 4% PFA, permeabilized with PBS containing 0.1% Triton X-100. Cells were stained with ARG66282 anti-RAGE antibody [SQab1745] (green) at 1:200 dilution, and cell nuclei were stained with Hoechst 33342 (blue).



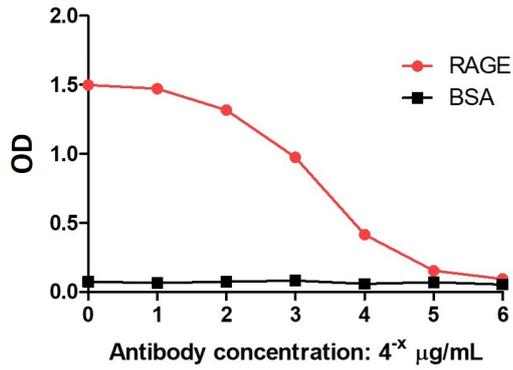
ARG66282 anti-RAGE antibody [SQab1745] FACS image

Flow Cytometry: 293T (black) and RAGE transfected 293T cells (red) stained with ARG66282 anti-RAGE antibody [SQab1745] at 1 µg/ml dilution.



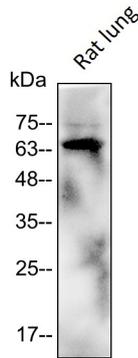
ARG66282 anti-RAGE antibody [SQab1745] WB image

Western blot: 15 μ g of 293T and RAGE transfected 293T cell lysates stained with ARG66282 anti-RAGE antibody [SQab1745] at 1:5000 dilution.



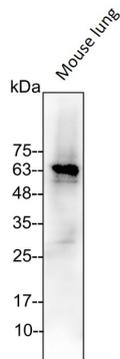
ARG66282 anti-RAGE antibody [SQab1745] ELISA image

ELISA: Titration curve of ARG66282 anti-RAGE antibody [SQab1745] in ELISA. Red: RAGE; Black: BSA (negative control).



ARG66282 anti-RAGE antibody [SQab1745] WB image

Western blot: 50 μ g of Rat lung lysate stained with ARG66282 anti-RAGE antibody [SQab1745] at 1:5000 dilution.



ARG66282 anti-RAGE antibody [SQab1745] WB image

Western blot: 50 μ g of Mouse lung lysate stained with ARG66282 anti-RAGE antibody [SQab1745] at 1:5000 dilution.

ARG66282 anti-RAGE antibody [SQab1745] WB image

Western blot: 30 µg of 3T3, HeLa and 293 cell lysates stained with ARG66282 anti-RAGE antibody [SQab1745] at 1:5000 dilution.

