

Rabbit anti-Human Advanced glycosylation end product-specific receptor Polyclonal Antibody | anti-AGER antibody

Rabbit anti-human Advanced glycosylation end product-specific receptor polyclonal Antibody

CATALOG # AAA230389	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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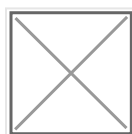
PRODUCT SYNONYMS

Advanced glycosylation end product-specific receptor; Polyclonal Antibody; Rabbit anti-human Advanced glycosylation end product-specific receptor polyclonal Antibody; Advanced glycosylation end product-specific receptor protein; Receptor for advanced glycosylation end products; AGER; RAGE; anti-AGER antibody

PRODUCT SPECIFICATIONS

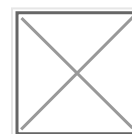
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Form/Format	Liquid
Sequence Length	404
Applicable Applications for anti-AGER antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant human Advanced glycosylation end product-specific receptor protein
Conjugation	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300; Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-8230 / sc-8229 / sc-5563
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of MCF-7 cells with AAA230389 at 1:200, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degree C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse liver using AAA230389 at dilution 1:50

ADDITIONAL INFORMATION

Related Product Information for anti-AGER antibody	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. By similarity. 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. This gene encodes a member of the immunoglobulin superfamily of cell surface molecules. It is a receptor for various molecules, including the amyloidogenic form of serum amyloid A, amyloid-beta protein, members of the S100/calgranulin superfamily and advanced glycation end products. The gene lies within the major histocompatibility complex (MHC) class III region on chromosome 6. Alternative splicing results in two transcript variants encoding different isoforms.
Product Categories/Family for anti-AGER antibody	Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835203
NCBI GeneID	177
NCBI Accession #	NP_001127.1
NCBI GenBank Nucleotide #	NM_001136.4
UniProt Accession #	Q15109; Q15279; Q3L1R4; Q3L1R5; Q3L1R6; Q3L1R7; Q3L1R8; Q3L1S0; A2BFI7; A6NKF0; A7Y2U9; B0V176
Molecular Weight	41,098 Da
NCBI Official Full Name	advanced glycosylation end product-specific receptor isoform 1
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
UniProt Protein Name	Advanced glycosylation end product-specific receptor
UniProt Gene Name	AGER
UniProt Synonym Gene Names	RAGE
UniProt Entry Name	RAGE_HUMAN

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.