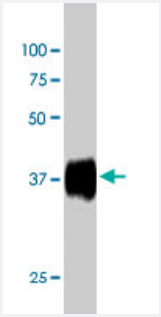
AGER monoclonal antibody, clone 1C5

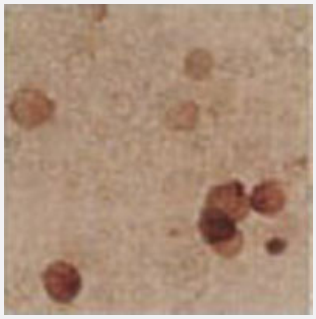
Catalog # MAB1724 Size 50 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extract from CHO cells, using AGER monoclonal antibody, clone 1C5 (Cat # MAB1724) .



Immunocytochemistry

Immunocytochemistry analysis of CHO cells overexpressing human AGER, using AGER monoclonal antibody, clone 1C5 (Cat # MAB1724) .

Specification

Product Description	Mouse monoclonal antibody raised against recombinant AGER.
Immunogen	Recombinant protein corresponding to human AGER.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1, kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.

Recommend Usage	Western Blot (0.1 ug/mL) Immunocytochemistry (1 ug/mL) ELISA (0.1 ug/mL) Flow Cyt (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.1% proclin, 2.0% Block Ace)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of extract from CHO cells, using AGER monoclonal antibody, clone 1C5 (Cat # MAB1724) .

- Immunocytochemistry

  Immunocytochemistry analysis of CHO cells overexpressing human AGER, using AGER monoclonal antibody, clone 1C5 (Cat # MAB1724) .

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Gene Info — AGER

Entrez GeneID	177
Gene Name	AGER
Gene Alias	MGC22357, RAGE
Gene Description	advanced glycosylation end product-specific receptor
Omim ID	600214
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the immunoglobulin superfamily of cell surface molecules. It is a r eceptor for various molecules, including the amyloidogenic form of serum amyloid A, amyloid-bet a protein, members of the S100/calgranulin superfamily and advanced glycation end products. Th e gene lies within the major histocompatibility complex (MHC) class III region on chromosome 6. Alternative splicing results in two transcript variants encoding different isoforms. [provided by Ref Seq

Other Designations	OTTHUMP00000029155|OTTHUMP00000029156|advanced glycosylation end product-specific receptor RAGE3|advanced glycosylation end product-specific receptor variant sRAGE1|advanced glycosylation end product-specific receptor variant sRAGE2|receptor for advanced

Publication Reference

- RAGE and soluble RAGE: potential therapeutic targets for cardiovascular diseases.

  Koyama H, Yamamoto H, Nishizawa Y.

  Molecular Medicine (Cambridge, Mass.) 2007 Nov; 13(11-12):625.

  Application: ELISA, Human, Human plasma

- The amphoterin (HMGB1)/receptor for advanced glycation end products (RAGE) pair modulates myoblast proliferation, apoptosis, adhesiveness, migration, and invasiveness. Functional inactivation of RAGE in L6 myoblasts results in tumor formation in vivo.

  Riuzzi F, Sorci G, Donato R.

  The Journal of Biological Chemistry 2006 Mar; 281(12):8242.

- Acute lung injury as an adverse event of gefitinib.

  Inomata S, Takahashi H, Nagata M, Yamada G, Shiratori M, Tanaka H, Satoh M, Saitoh T, Sato T, Abe S.

  Anti-Cancer Drugs 2004 Jun; 15(5):461.

- Novel splice variants of the receptor for advanced glycation end-products expressed in human vascular endothelial cells and pericytes, and their putative roles in diabetes-induced vascular injury.

  Yonekura H, Yamamoto Y, Sakurai S, Petrova RG, Abedin MJ, Li H, Yasui K, Takeuchi M, Makita Z, Takasawa S, Okamoto H, Watanabe T, Yamamoto H.

  The Biochemical Journal 2003 Mar; 370(Pt 3):1097.

  Application: WB-Tr, Monkey, COS-7 cells

- Blockade of RAGE-amphoterin signalling suppresses tumour growth and metastases.

  Taguchi A, Blood DC, del Toro G, Canet A, Lee DC, Qu W, Tanji N, Lu Y, Lalla E, Fu C, Hofmann MA, Kislinger T, Ingram M, Lu A, Tanaka H, Hori O, Ogawa S, Stern DM, Schmidt AM.

  Nature 2000 May; 405(6784):354.

  Application: IF, WB-Ce, Mouse, Rat, Lung murine carcinoma, C6 glioma cells

Disease

- Alzheimer disease

- Atherosclerosis
- Brain Ischemia
- Calcinosis
- Cardiovascular Diseases
- Cerebral Amyloid Angiopathy
- Cognition
- Colitis
- Coronary Artery Disease
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Diabetic Retinopathy
- Edema
- Genetic Predisposition to Disease
- Insulin Resistance
- Kidney Failure
- Lung Diseases
- Lupus Erythematosus
- Myocardial Infarction
- Neuroblastoma
- Neuropsychological Tests
- Obesity
- Pancreatic Neoplasms
- Pulmonary Disease