

Rabbit GLO1 Monoclonal Antibody | anti-GLO1 antibody

GLO1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30421	Rabbit	Human, Mouse, Rat	Western Blot, Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay

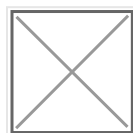
PRODUCT SYNONYMS

GLO1; Monoclonal Antibody; GLO1 Antibody; Aldoketomutase antibody; glo1 antibody; GLOD1 antibody; Glx I antibody; GLYI antibody; glyoxalase domain containing 1 antibody; Glyoxalase I antibody; Ketone aldehyde mutase antibody; Ketone-aldehyde mutase antibody; Lactoyl glutathione lyase antibody; Lactoylglutathione lyase antibody; LGUL_HUMAN antibody; Methylglyoxalase antibody; S D lactoylglutathione methylglyoxal lyase antibody; S-D-lactoylglutathione methylglyoxal lyase antibody; anti-GLO1 antibody

PRODUCT SPECIFICATIONS

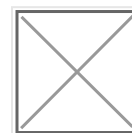
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	JU44-11
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-GLO1 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:500-1:2000 IHC: 1:100-1:500 ICC: 1:100-1:500 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



FCM (Flow Cytometry)

Flow cytometric analysis of HeLa cells with GLO1 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).



ICC (Immunocytochemistry)

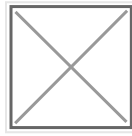
ICC staining GLO1 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**ICC (Immunocytochemistry)**

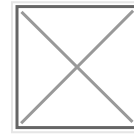
ICC staining GLO1 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**ICC (Immunocytochemistry)**

ICC staining GLO1 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded human thyroid gland tissue using anti-GLO1 antibody. Counter stained with hematoxylin.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded rat epididymis tissue using anti-GLO1 antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-GLO1 antibody	The glyoxal pathway plays a role in the detoxification of glucose degradation products (GDP). Glyoxalase I (GLO1), a member of the glyoxalase family, is effective in eliminating GDP. Overexpression or silencing of Glyoxalase I in mice brain suggests an association between Glyoxalase I and anxiety. Glyoxalase I has three isoforms generated from two alleles in the genome which forms two homodimers and one heterodimer, each subunit binding one zinc ion. Research demonstrates that GLO1 gene expression is induced in colon carcinoma. Both an insulin response element (IRE), and a zinc metal response element (MRE) in the promoter region of the GLO1 gene have been identified.
Product Categories/Family for anti-GLO1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	134039205
NCBI GeneID	2739
UniProt Accession #	Q04760 ; P78375 ; Q59EL0 ; Q5TZW3 ; Q96FC0 ; Q96J41 ; B2R6P7 ; B4DDV0
Molecular Weight	Calculated: 19kDa/20kDa Observed: 21kDa
NCBI Official Full Name	Lactoylglutathione lyase
NCBI Official Synonym Full Names	glyoxalase I
NCBI Official Symbol	GLO1
NCBI Official Synonym Symbols	GLYI; GLOD1; HEL-S-74
NCBI Protein Information	lactoylglutathione lyase; glx I; aldoketomutase; methylglyoxalase; ketone-aldehyde mutase; lactoyl glutathione lyase; glyoxalase domain containing 1; epididymis secretory protein Li 74; S-D-lactoylglutathione methylglyoxal lyase
UniProt Protein Name	Lactoylglutathione lyase
UniProt Gene Name	GLO1
UniProt Synonym Gene Names	Glx I
UniProt Entry Name	LGUL_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.