
Product Name: KD-Validated Glyoxalase I Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01076

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 20.8kDa

Antigen Information

Gene Name	GLO1
Alternative Names	GLO1; Glyoxalase I; Lactoylglutathione Lyase; GLOD1; S-D-Lactoylglutathione Methylglyoxal Lyase; Ketone-Aldehyde Mutase; Methylglyoxalase; Aldoketomutase; EC 4.4.1.5; Glx I; Epididymis Secretory Protein Li 74; Glyoxalase Domain Containing 1; Lactoyl Glutathione Lyase; HEL-S-74; GLYI
Gene ID	2739.0
SwissProt ID	Q04760
Immunogen	A synthesized peptide derived from human GLO1

Background

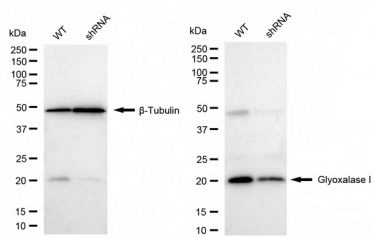
The enzyme encoded by this gene is responsible for the catalysis and formation of S-lactoyl-glutathione from methylglyoxal

condensation and reduced glutathione. Glyoxalase I is linked to HLA and is localized to 6p21.3-p21.1, between HLA and the centromere. [provided by RefSeq, Jul 2008]

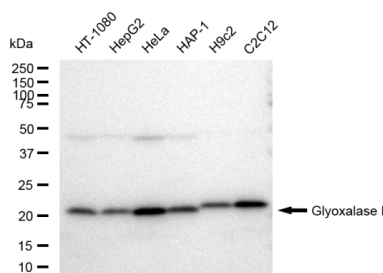
Research Area

Signal Transduction,Cancer,Cardiovascular,Metabolism

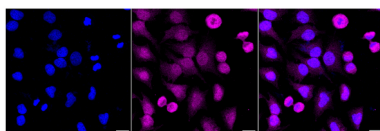
Image Data



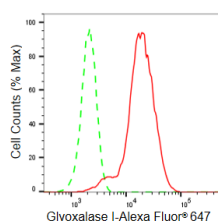
Western blotting analysis using glyoxalase I antibody (KVA01076). Glyoxalase I expression in wild type (WT) and glyoxalase I (GLO1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with glyoxalase I antibody (KVA01076, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Glyoxalase I antibody (KVA01076). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Glyoxalase I antibody (KVA01076, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with glyoxalase i antibody (KVA01076, 1:1,000). Nuclei were stained blue with DAPI; Glyoxalase i was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Glyoxalase I expression in HeLa cells using Glyoxalase I antibody (KVA01076, 1:2,000). Green, isotype control; red, Glyoxalase I.