

Rabbit anti-Mouse GLO1 Polyclonal Antibody | anti-GLO1 antibody

Anti-GLO1 Antibody, Rabbit Polyclonal

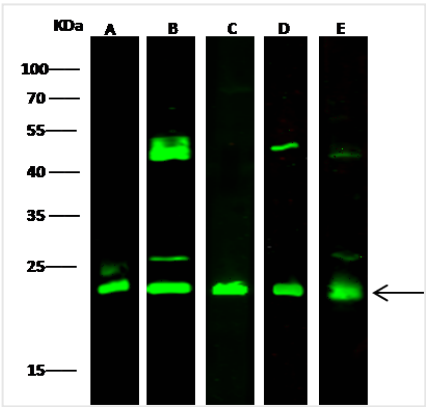
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257143	Rabbit	Mouse	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

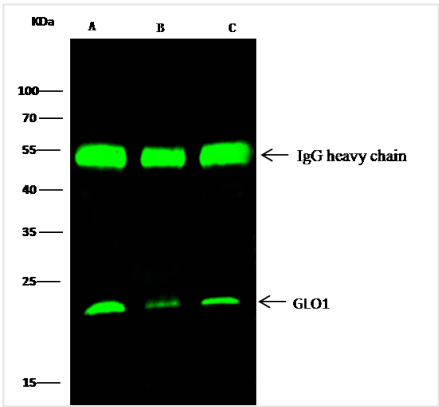
GLO1; Polyclonal Antibody; Anti-GLO1 Antibody; Rabbit Polyclonal; GLO1/Glyoxalase 1 Antibody; Rabbit PAb; Antigen Affinity Purified; glyoxalase I; Anti-0610009E22Rik Antibody; Anti-1110008E19Rik Antibody; Anti-2510049H23Rik Antibody; Anti-AW550643 Antibody; Anti-Glo-1 Antibody; Anti-Glo-1r Antibody; Anti-Glo-1s Antibody; Anti-Glo1-r Antibody; Anti-Glo1-s Antibody; Anti-GLY1 Antibody; Anti-Qglo Antibody; anti-GLO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Glyoxalase I/GLO1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-GLO1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse GLO1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse GLO1 (rM GLO1). GLO1 specific IgG was purified by mouse GLO1 affinity chromatography .
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-GLO1 rabbit polyclonal antibody at 1:500 dilutionLane A: 293T Whole Cell LysateLane B: MCF7 Whole Cell LysateLane C: A549 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:21 kDaObserved band size:23 kDa(We are unsure as to the identity of these extra bands.



IP (Immunoprecipitation)
Mouse GLO1 was immunoprecipitated using:Lane A:0.5 mg 293T Whole Cell LysateLane B:0.5 mg A549 Whole Cell LysateLane C:0.5 mg HepG2 Whole Cell Lysate2 uL anti-Mouse GLO1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-Mouse GLO1 rabbit polyclonal antibody,at 1:200 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 24 kDaObserved band size: 24 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-GLO1 antibody	Lactoylglutathione lyase, also known as Methylglyoxalase, Aldoketomutase, Glyoxalase I, Ketone-aldehyde mutase, S-D-lactoylglutathione methylglyoxal lyase and GLO1, is a member of the glyoxalase I family. GLO1/Glyoxalase I is a ubiquitous cellular defense enzyme involved in the detoxification of methylglyoxal, a cytotoxic byproduct of glycolysis. Accumulative evidence suggests an important role of GLO1 expression in protection against methylglyoxal-dependent protein adduction and cellular damage associated with diabetes, cancer, and chronological aging. GLO1/Glyoxalase I has been implicated in anxiety-like behavior in mice and in multiple psychiatric diseases in humans. GLO1/Glyoxalase I catalyzes the conversion of hemimercaptal, formed from methylglyoxal and glutathione, to S-lactoylglutathione. GLO1/Glyoxalase I exists in three separable isoforms which originate from two alleles in the genome. These correspond to two homodimers and one heterodimer composed of two subunits showing different electrophoretic properties. GLO1 upregulation may play a functional role in glycolytic adaptations of cancer cells.
References	Wu, YY. et al., 2008, Prog Neuropsychopharmacol Biol Psychiatry. 32 (7):1740-4. Williams, R. et al., 2009, PLoS One 4 (3): e4649. Antognelli, C. et al., 2009, BMC Cancer 9 :115. Bair, W.B. et al., 2010, Melanoma Res 20 (2):85-96.

NCBI AND UNIPROT INFORMATION

NCBI GI #	165932331
NCBI GeneID	109801
NCBI Accession #	NP_079650.3
NCBI GenBank Nucleotide #	NM_025374.3
UniProt Accession #	Q9CPU0; Q543L3; Q8R3T1
Molecular Weight	20,810 Da
NCBI Official Full Name	lactoylglutathione lyase
NCBI Official Synonym Full Names	glyoxalase 1
NCBI Official Symbol	Glo1
NCBI Official Synonym Symbols	GLY1; Qglo; Glo-1; Glo-1r; Glo-1s; Glo1-r; Glo1-s; AW550643; 0610009E22Rik; 1110008E19Rik; 2510049H23Rik
NCBI Protein Information	lactoylglutathione lyase

UniProt Protein Name	Lactoylglutathione lyase
UniProt Gene Name	Glo1
UniProt Synonym Gene Names	Glx I

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/glo1-antibody-immunoprecipitation-western-blot-elisa/257143>