# Mouse Lactoylglutathione Lyase Monoclonal Antibody | anti-GLO1 antibody

Lactoylglutathione Lyase

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA214749** | **Mouse** | **Human. Others not tested.** | **Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

Lactoylglutathione Lyase; Monoclonal Antibody; Aldoketomutase; epididymis secretory protein Li 74; Glo1; Glx I; glyoxalase 1 complex; glyoxalase 1 regulatory; glyoxalase 1 structural; glyoxalase domain containing 1; Glyoxalase I; glyoxylase 1; Ketone-aldehyde mutase; lactoyl glutathione lyase; Lactoylglutathione lyase; Methylglyoxalase; S-D-lactoylglutathione methylglyoxal lyase; anti-GLO1 antibody

## PRODUCT SPECIFICATIONS

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| **Host** | Mouse |
| **Reactivity** | Human. Others not tested. |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Number** | CPTC-GLO1-1 |
| **Specificity** | GLO1 is an enzyme involved in the detoxification of methylgyoxal, a byproduct of glycolysis. GLO1 expression has been demonstrated by several studies to be upregulated in various human malignant tumors, including metastatic melanoma and lung carcinoma, and thus is a target for pharmaceutical development. |
| **Purity/Purification** | Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml |
| **Form/Format** | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Sequence Length** | 169 |
| **Applicable Applications for anti-GLO1 antibody** | IHC (Immunohistochemistry), WB (Western Blot) |
| **Immunogen** | Recombinant human full-length GLO1 protein |
| **Positive Control** | A431, HepG2, MOLT and Raji cell lysates. Ovarian Carcinoma or Prostate Carcinoma. |
| **Cellular Localization** | Cytoplasm. |
| **Chromosome Location** | 6p21.2 |
| **Preparation and Storage** | Antibody with azide - store at 2 to 8 degree C.<br>Antibody without azide - store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required. |

## IMAGES



**Application Data**

Analysis of Protein Array containing more than 19,000 full-length human proteins using Lactoylglutathione Lyase Monoclonal Antibody (CPTC-GLO1-1). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



**IHC (Immunohistochemistry)**

Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with Lactoylglutathione Lyase Mouse Monoclonal Antibody (CPTC-GLO1-1).

## ADDITIONAL INFORMATION

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|---|---|
| **References** | Sakamoto, H, et al. "Selective Activation of Apoptosis Program by S-p-Bromobenzylglutathione Cyclopentyl Diester in Glyoxalase I-Overexpressing Human Lung Cancer Cells." Clinical Cancer Research : an Official Journal of the American Association for Cancer Research., U.S. National Library of Medicine, Aug. 2001. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 118402586 |
| **NCBI GeneID** | 2739 |
| **NCBI Accession #** | NP_006699.2 |
| **NCBI GenBank Nucleotide #** | NM_006708.2 |
| **UniProt Accession #** | Q04760; P78375; Q59EL0; Q5TZW3; Q96FC0; Q96J41; B2R6P7; B4DDV0 |
| **Molecular Weight** | 24-26kDa |
| **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 |
| **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/monoclonal/lactoylglutathione-lyase-antibody-clone-cptc-glo1-1-immunohistochemistry-western-blot-elisa/214749