

**GLO1 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6649a****Specification**

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**GLO1 Antibody (N-term) - Product Information**

Application	IF, WB, IHC-P, FC,E
Primary Accession	<a href="#">Q04760</a>
Other Accession	<a href="#">Q4R5F2</a>
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	20778
Antigen Region	23-51

**GLO1 Antibody (N-term) - Additional Information****Gene ID** 2739**Other Names**

Lactoylglutathione lyase, Aldoketomutase, Glyoxalase I, Glx I, Ketone-aldehyde mutase, Methylglyoxalase, S-D-lactoylglutathione methylglyoxal lyase, GLO1

**Target/Specificity**

This GLO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 23-51 amino acids from the N-terminal region of human GLO1.

**Dilution**IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GLO1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GLO1 Antibody (N-term) - Protein Information**

## Name GLO1

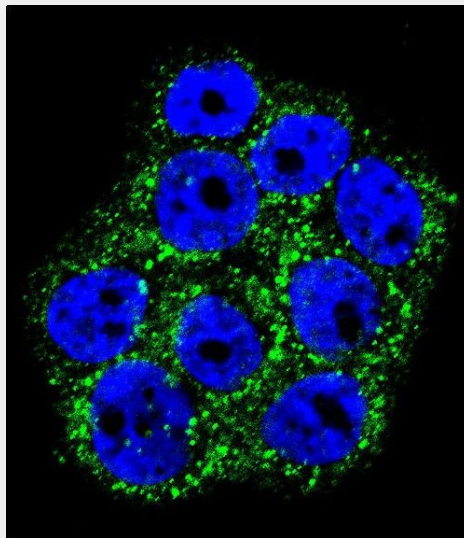
**Function** Catalyzes the conversion of hemimercaptal, formed from methylglyoxal and glutathione, to S-lactoylglutathione (PubMed:[20454679](#), PubMed:[23122816](#), PubMed:[9705294](#)). Involved in the regulation of TNF-induced transcriptional activity of NF-kappa-B (PubMed:[19199007](#)). Required for normal osteoclastogenesis (By similarity).

## GLO1 Antibody (N-term) - Protocols

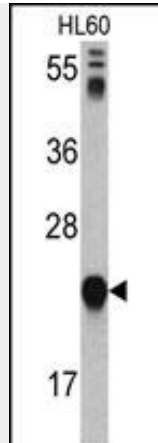
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

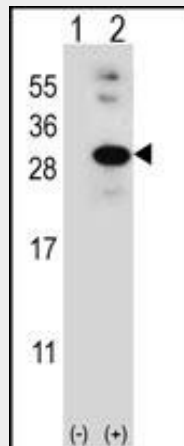
## GLO1 Antibody (N-term) - Images



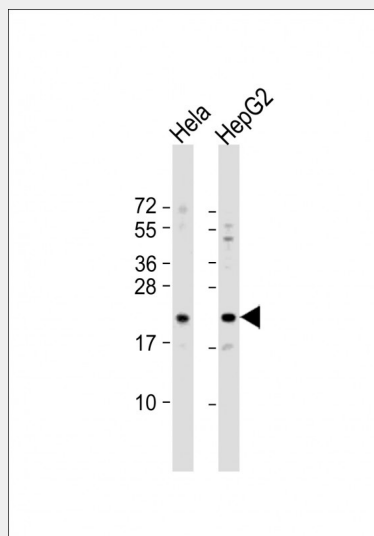
Confocal immunofluorescent analysis of GLO1 Antibody (N-term)(Cat#AP6649a) with WiDr cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



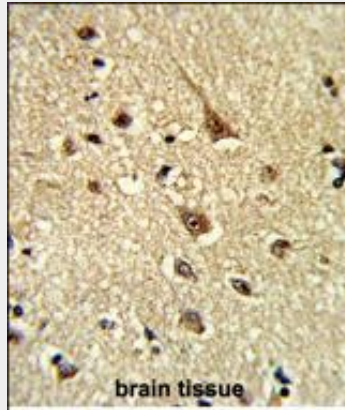
Western blot analysis of GLO1 antibody (N-term) (Cat. #AP6649a) in HL60 cell line lysates (35ug/lane). GLO1 (arrow) was detected using the purified Pab.



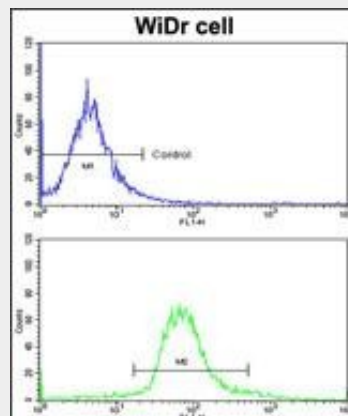
Western blot analysis of GLO1 (arrow) using rabbit polyclonal GLO1 Antibody (N-term) (Cat. #AP6649a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GLO1 gene.



All lanes : Anti-GLO1 Antibody (N-term) at 1:1000 dilution Lane 1: HeLa whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human brain tissue reacted with GLO1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of WiDr cells using GLO1 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **GLO1 Antibody (N-term) - Background**

The enzyme GLO1 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.

### **GLO1 Antibody (N-term) - References**

- Germanova, A., Cancer Invest. 27 (6), 655-660 (2009)
- Engelen, L., J. Hypertens. 27 (7), 1399-1403 (2009)