



[Go to Product page](#)

Datasheet for ABIN5692862  
**anti-GLO1 antibody (AA 2-184)**

6 Images

### Overview

Quantity:	100 µg
Target:	GLO1
Binding Specificity:	AA 2-184
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLO1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

### Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived human GLO1 recombinant protein (Position: A2-M184).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for GLO1 detection. Tested with WB, IHC-P, Direct ELISA in Human, Mouse, Rat.

### Target Details

Target:	GLO1
Alternative Name:	GLO1 ( <a href="#">GLO1 Products</a> )
Background:	Synonyms: Lactoylglutathione lyase, Aldoketomutase, Glyoxalase I, Glx I, Ketone-aldehyde

## Target Details

---

mutase, Methylglyoxalase, S-D-lactoylglutathione methylglyoxal lyase, GLO1

Background: Lactoylglutathione lyase in humans is encoded by the GLO1 gene. 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.

UniProt: [Q04760](#)

## Application Details

---

Application Notes: Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot.  
Application Details: Western blot, 0.1-0.5 µg/mL  
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/mL  
Direct ELISA, 0.1-0.5 µg/mL

Restrictions: For Research Use only

## Handling

---

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

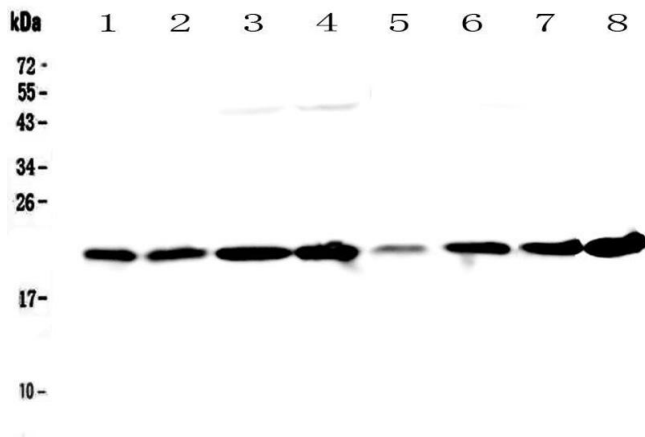
Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg NaN<sub>3</sub>.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

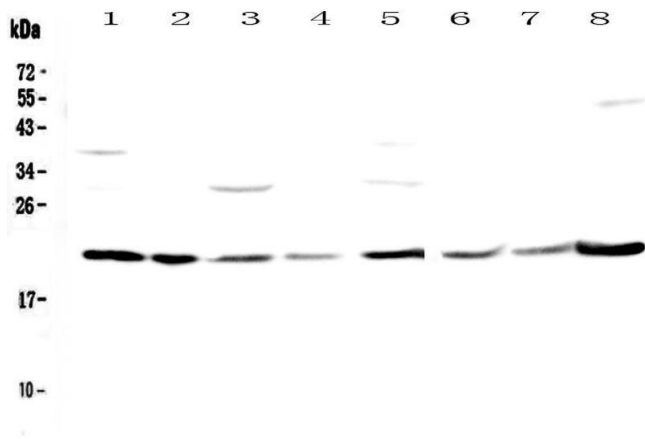
Storage: 4 °C, -20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



**Western Blotting**

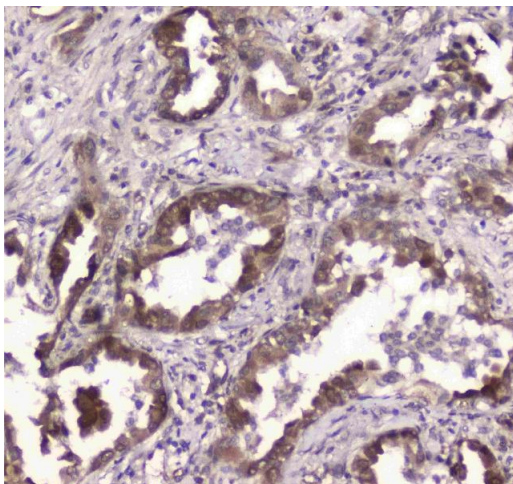
**Image 1.** Western blot analysis of GLO1 using anti-GLO1 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human placenta tissue lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: human COLO-320 whole cell lysates, Lane 5: human 22RV1 whole cell lysates, Lane 6: human HepG2 whole cell lysates, Lane 7: human A431 whole cell lysates, Lane 8: human U-937 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GLO1 antigen affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GLO1 at approximately 21KD. The expected band size for GLO1 is at 21KD.



**Western Blotting**

**Image 2.** Western blot analysis of GLO1 using anti-GLO1 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: rat testis tissue lysates, Lane 3: rat spleen tissue lysates, Lane 4: rat thymus tissue lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse testis tissue lysates, Lane 7: mouse thymus tissue lysates, Lane 8:

mouse liver tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GLO1 antigen affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GLO1 at approximately 21KD. The expected band size for GLO1 is at 21KD.



### Immunohistochemistry

**Image 3.** IHC analysis of GLO1 using anti-GLO1 antibody . GLO1 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-GLO1 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN5692862.