

Glyoxalase I (h2): 293T Lysate: sc-112198

BACKGROUND

The glyoxal pathway plays a role in the detoxification of glucose degradation products (GDP). Glyoxalase I (GLO1), a member of the glyoxalase family, is effective in eliminating GDP. Overexpression or silencing of Glyoxalase I in mouse brain suggests an association between Glyoxalase I and anxiety. Glyoxalase I has three isoforms generated from two alleles in the genome which forms two homodimers and one heterodimer, each subunit binding one zinc ion. Research demonstrates that GLO1 gene expression is induced in colon carcinoma. Both an Insulin response element (IRE) and a zinc metal response element (MRE) in the promoter region of the GLO1 gene have been identified.

REFERENCES

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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: GLO1 (human) mapping to 6p21.2.

PRODUCT

Glyoxalase I (h2): 293T Lysate represents a lysate of human Glyoxalase I transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Glyoxalase I (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Glyoxalase I antibodies. Recommended use: 10-20 µl per lane.

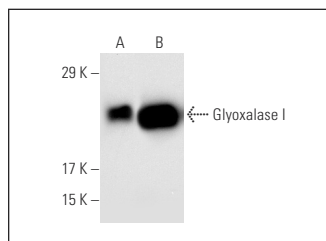
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Glyoxalase I (D-6): sc-133144 is recommended as a positive control antibody for Western Blot analysis of enhanced human Glyoxalase I expression in Glyoxalase I transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

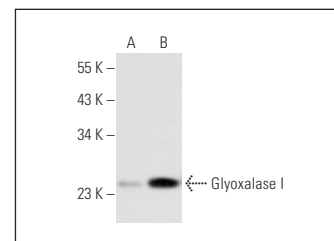
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Glyoxalase I (D-6): sc-133144. Western blot analysis of Glyoxalase I expression in non-transfected: sc-117752 (A) and human Glyoxalase I transfected: sc-112198 (B) 293T whole cell lysates.



Glyoxalase I (6F10): sc-101537. Western blot analysis of Glyoxalase I expression in non-transfected: sc-117752 (A) and human Glyoxalase I transfected: sc-112198 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.