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Glyoxalase II (h3): 293T Lysate: sc-170335

BACKGROUND

The glyoxal pathway plays a role in the detoxification of glucose degradation products (GDP). Glyoxalase I and Glyoxalase II (also designated hydroxyacyl glutathione hydrolase or HAGH) are members of the glyoxalase family. The Glyoxalase II enzyme is a thiolesterase that catalyzes the hydrolysis of S-D-lactoyl-glutathione to form reduced glutathione and D-lactic acid. It exists only as a monomer and binds two zinc ions per subunit. Glyoxalase II contains 260 amino acids. It is detected in the mitochondria and cytosol of mammals. Both Glyoxalase I and Glyoxalase II are detected at a higher activity level in breast cancer tissues than with matched unaffected tissues. This suggests that glyoxalase inhibitor drugs may be effective in the treatment of cancer.

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CHROMOSOMAL LOCATION

Genetic locus: HAGH (human) mapping to 16p13.3.

PRODUCT

Glyoxalase II (h3): 293T Lysate represents a lysate of human Glyoxalase II transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Glyoxalase II (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive Glyoxalase II antibodies. Recommended use: 10-20 µl per lane.

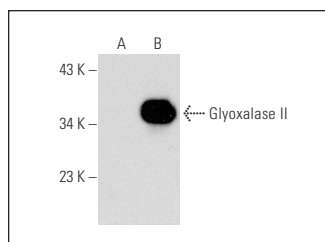
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Glyoxalase II (A-11): sc-365233 is recommended as a positive control antibody for Western Blot analysis of enhanced human Glyoxalase II expression in Glyoxalase II transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

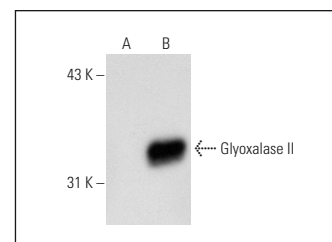
RECOMMENDED SUPPORT REAGENTS

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 II (A-11): sc-365233. Western blot analysis of Glyoxalase II expression in non-transfected: sc-117752 (A) and human Glyoxalase II transfected: sc-170335 (B) 293T whole cell lysates.



Glyoxalase II (F-9): sc-166781. Western blot analysis of Glyoxalase II expression in non-transfected: sc-117752 (A) and human Glyoxalase II transfected: sc-170335 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

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.