



Gl Syn (m): 293T Lysate: sc-120492

BACKGROUND

Glutamine synthetase (Gl Syn) forms a homooctamer that serves as a catalyst for the amination of glutamic acid to form glutamine. This enzyme is a marker for astrocytes, which serve as the primary site of conversion of glutamic acid to glutamine in the brain. Induction of Gl Syn is seen upon astrocyte cell contact with neurons. Elevated expression of Gl Syn in glial cells has been shown to protect neurons from degeneration due to excess glutamate. Gl Syn is also present in the liver and is involved in nitrogen homeostasis. Overexpression of Gl Syn has been shown in primary liver cancers, indicating a potential role for Gl Syn in hepatocyte transformation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Glul (mouse) mapping to 1 G3.

PRODUCT

Gl Syn (m): 293T Lysate represents a lysate of mouse Gl Syn transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Gl Syn (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Gl Syn 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.

RESEARCH USE

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

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.

PROTOCOLS

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