# Ly-6H (h2): 293T Lysate: sc-114063



The Power to Question

#### **BACKGROUND**

The Ly-6 (lymphocyte antigen 6) alloantigens represent a family of phosphatidylinositol-anchored proteins that play a role in the process of T lymphocyte activation. Ly-6 family members share amino acid homology throughout a distinctive cysteine rich protein domain that incorporates O-linked carbohydrates. During hematopoiesis, murine Ly-6 molecules have unique patterns of tissue expression, from multipotential stem cells to lineage committed precursor cells, and on specific leukocyte subpopulations in the peripheral lymphoid tissues. Ly-6H (lymphocyte antigen 6H), also known as NMLY6, is a 140 amino acid lipid-anchored membrane protein that belongs to the Ly-6 family. Highly expressed in brain, with lower expression in pancreas, testis, colon and small intestine, Ly-6H participates in the activation of T lymphocytes. Overexpression of Ly-6H is detected in certain acute human leukemic cell lines (such as MOLT-3), suggesting a possible role for Ly-6H in carcinogenesis.

# **REFERENCES**

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- Flanagan, K., Modrusan, Z., Cornelius, J., Chavali, A., Kasman, I., Komuves, L., Mo, L. and Diehl, L. 2008. Intestinal epithelial cell upregulation of Ly-6 molecules during colitis results in enhanced chemokine secretion. J. Immunol. 180: 3874-3881.

# CHROMOSOMAL LOCATION

Genetic locus: LY6H (human) mapping to 8q24.3.

# **PRODUCT**

Ly-6H (h2): 293T Lysate represents a lysate of human Ly-6H transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

### 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.

#### **APPLICATIONS**

Ly-6H (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Ly-6H antibodies. Recommended use: 10-20 µl per lane.

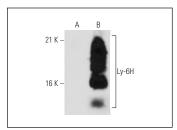
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-tranfected 293T cells.

Ly-6H (MN-7): sc-100285 is recommended as a positive control antibody for Western Blot analysis of enhanced human Ly-6H expression in Ly-6H 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-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

# **DATA**



Ly-6H (MN-7): sc-100285. Western blot analysis of Ly-6H expression in non-transfected: sc-117752 (**A**) and human Ly-6H transfected: sc-114063 (**B**) 293T whole cell lysates.

# **PROTOCOLS**

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

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