

Ly-6C (HK1.4): sc-13574

BACKGROUND

The gene encoding the mouse alloantigen, Ly-6C, maps to chromosome 15 and encodes a 131 amino acid protein that belongs to the Ly-6 family of glycosyl-phosphatidylinositol (GPI)-linked proteins. Ly-6 family members share amino acid homology throughout a distinctive cysteine rich protein domain that incorporates O-linked carbohydrates. Murine Ly-6 molecules have unique patterns of tissue expression during hematopoiesis from multipotential stem cells to lineage committed precursor cells, and on specific leukocyte subpopulations in the peripheral lymphoid tissues. Ly-6C is predominantly expressed on murine peripheral CD8 T cells. Ly-6C is involved in endothelial adhesion, the killing of target cells by CTLs, inducing TCR-mediated activation of IL-2 and IFN- γ production in CD8 T cells and the homing of CD8 T cells. In addition, Ly-6C may act as a signaling molecule of LFA-1 activation.

REFERENCES

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4. Takikawa, O., et al. 1996. Multiple expression of Ly-6C and accumulation of a Ly-6C pre-mRNA in activated macrophages involved in rejection of an allografted tumor. *Biochem. Biophys. Res. Commun.* 226: 247-253.
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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.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: Ly6c1 (mouse) mapping to 15 D3.

SOURCE

Ly-6C (HK1.4) is a rat monoclonal antibody raised against L3 cloned CTL cells.

PRODUCT

Each vial contains 200 μ g IgG_{2c} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Ly-6C (HK1.4) is available conjugated to either phycoerythrin (sc-13574 PE) or fluorescein (sc-13574 FITC), 200 μ g/ml, for IF, IHC(P) and FCM.

APPLICATIONS

Ly-6C (HK1.4) is recommended for detection of Ly-6C of mouse origin by immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Ly-6C siRNA (m): sc-42943, Ly-6C shRNA Plasmid (m): sc-42943-SH and Ly-6C shRNA (m) Lentiviral Particles: sc-42943-V.

Molecular Weight of Ly-6C: 14-16 kDa.

RESEARCH USE

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