

Ly-6D (RGRSL 114.8.1): sc-65885

BACKGROUND

Ly-6D (lymphocyte antigen 6D), also known as E48 antigen, is a 128 amino acid glycoprotein that is expressed in squamous cell carcinoma cell lines and squamous cell epithelia tissue. Ly-6D contains a signal peptide, two theoretical phosphorylation sites and three putative myristoylation sites. Upregulation of the gene encoding Ly-6D in head and neck cancers is associated with poor prognosis and high expression of Ly-6D has been linked to enhanced cell migration. Ly-6D is frequently used as a molecular marker for diagnosis and therapy of head-and-neck squamous cell carcinoma (HNSCC). It has been suggested that Ly-6D may regulate the expression levels of certain fucosylated E-selectin ligands and protein FX, a protein that contributes to the last step in the synthesis of GDP-L-fucose, in HNSCC cell lines. This finding is indicative that Ly-6D may regulate tumor cell adhesion in inflamed vessel walls that express E-selectin.

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.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: Ly6d (mouse) mapping to 15 D3.

SOURCE

Ly-6D (RGRSL 114.8.1) is a rat monoclonal antibody raised against Ly-6D of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

Ly-6D (RGRSL 114.8.1) is available conjugated to either phycoerythrin (sc-65885 PE) or fluorescein (sc-65885 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

APPLICATIONS

Ly-6D (RGRSL 114.8.1) is recommended for detection of Ly-6D of mouse origin by flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Ly-6D siRNA (m): sc-149158, Ly-6D shRNA Plasmid (m): sc-149158-SH and Ly-6D shRNA (m) Lentiviral Particles: sc-149158-V.

Molecular Weight of Ly-6D: 17 kDa.

RESEARCH USE

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