

CD4 (m): 293T Lysate: sc-119107

BACKGROUND

The T cell receptor (TCR) is a heterodimer composed of either α and β or γ and δ chains. CD3 chains and the CD4 or CD8 co-receptors are also required for efficient signal transduction through the TCR. The TCR is expressed on T helper and T cytotoxic cells that can be distinguished by their expression of CD4 and CD8; T helper cells express CD4 proteins and T cytotoxic cells display CD8. CD4 is also expressed on cortical cells, mature medullary thymocytes, microglial cells and dendritic cells. CD4 (also designated T4 and Leu 3) is a membrane glycoprotein that contains four extracellular immunoglobulin-like domains. The TCR in association with CD4 can bind class II MHC molecules presented by the antigen-presenting cells. The CD4 protein functions by increasing the avidity of the interaction between the TCR and an antigen-class II MHC complex. An additional role of CD4 is to function as a receptor for HIV.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Cd4 (mouse) mapping to 6 F2.

PRODUCT

CD4 (m): 293T Lysate represents a lysate of mouse CD4 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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.

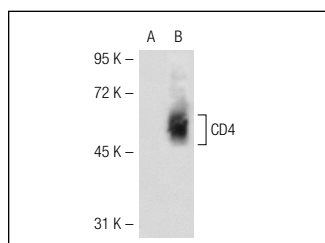
APPLICATIONS

CD4 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CD4 antibodies. Recommended use: 10-20 μ l per lane.

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

CD4 (RM4-5): sc-19643 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse CD4 expression in CD4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



CD4 (RM4-5): sc-19643. Western blot analysis of CD4 expression in non-transfected: sc-117752 (A) and mouse CD4 transfected: sc-119107 (B) 293T whole cell lysates.

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.