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CD26 (m): 293T Lysate: sc-126598

BACKGROUND

CD26 (dipeptidylpeptidase 4, adenosine deaminase complexing protein 2, ADABP, ADCP2, DPPIV, TP103) is a membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. CD26 has an essential role in immune regulation as a T cell activation molecule and a regulator of chemokine function. CD26 associates with CXCR4 and gp120 and may influence the pathophysiology of HIV infection. Adenosine deaminase (ADA) co-localizing with adenosine receptors on dendritic cells are able to interact with CD26 expressed on lymphocytes. This costimulatory signal in the immunological synapse leads to an increase in the production of the T helper 1 and proinflammatory cytokines IFN- γ , TNF α and IL-6. CD26 plays a role in the pathogenesis and behavior of human cancers, including solid tumors and hematological malignancies. CD26-caveolin-1 interaction plays a role in the upregulation of CD86 on TT-loaded monocytes and subsequent engagement with CD28 on T cells, leading to antigen-specific T cell activation.

REFERENCES

1. McMaster, W.R. and Williams A.F. 1979. Identification of Ia glycoproteins in rat thymus and purification from rat spleen. *Eur. J. Immunol.* 9: 426-433.
2. Dang, N.H., Torimoto, Y., Shimamura, K., Tanaka, T., Daley, J.F., Schlossman, S.F. and Morimoto, C. 1991. 1F7 (CD26): a marker of thymic maturation involved in the differential regulation of the CD3 and CD2 pathways of human thymocyte activation. *J. Immunol.* 147: 2825-2832.
3. Tanaka, T., Camerini, D., Seed, B., Torimoto, Y., Dang, N.H., Kameoka, J., Dahlberg, H.N., Schlossman, S.F. and Morimoto, C. 1992. Cloning and functional expression of the T cell activation antigen CD26. *J. Immunol.* 149: 481-486.
4. Fleischer, B. 1994. CD26: a surface protease involved in T cell activation. *Immunol. Today* 15: 180-184.
5. Abbott, C.A., Baker, E., Sutherland, G.R. and McCaughan, G.W. 1994. Genomic organization, exact localization, and tissue expression of the human CD26 (dipeptidyl peptidase IV) gene. *Immunogenetics* 40: 331-338.
6. Dong, R.P. and Morimoto, C. 1996. Role of CD26 for CD4 memory T cell function and activation. *Hum. Cell* 9: 153-162.
7. Ikushima, H., Munakata, Y., Ishii, T., Iwata, S., Terashima, M., Tanaka, H., Schlossman, S.F. and Morimoto, C. 2000. Internalization of CD26 by mannose 6-phosphate/Insulin-like growth factor II receptor contributes to T cell activation. *Proc. Natl. Acad. Sci. USA* 97: 8439-8444.
8. Bauvois, B., Djavaheri-Mergny, M., Rouillard, D., Dumont, J. and Wietzerbin, J. 2000. Regulation of CD26/DPPIV gene expression by interferons and retinoic acid in tumor B cells. *Oncogene* 19: 265-272.
9. Herrera, C., Morimoto, C., Blanco, J., Mallol, J., Arenzana, F., Lluís, C. and Franco, R. 2001. Comodulation of CXCR4 and CD26 in human lymphocytes. *J. Biol. Chem.* 276: 19532-19539.

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.

CHROMOSOMAL LOCATION

Genetic locus: Dpp4 (mouse) mapping to 2 C1.3.

PRODUCT

CD26 (m): 293T Lysate represents a lysate of mouse CD26 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

CD26 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CD26 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.

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.