



## CD1 (22-297): sc-4525 WB

### BACKGROUND

The CD1 genes form a multigene family with five forms in human, two in mouse and eight in rabbit. CD1 has structural similarity to the MHC class I antigen, and it thus has been suggested to play a role in antigen presentation. CD1 antigens are expressed on cortical thymocytes and some dendritic cells. CD1 is a 49 kDa polypeptide that is associated with  $\beta$ 2 microglobulin.

### REFERENCES

1. Longley, J., Kraus, J., Alonso, M., and Edelson, R. 1989. Molecular cloning of CD1a (T6), a human epidermal dendritic cell marker related to class I MHC molecules. *J. Invest. Dermatol.* 92: 628-631.
2. Aruffo, A. and Seed, B. 1989. Expression of cDNA clones encoding the thymocyte antigens CD1a, b, c demonstrates a hierarchy of exclusion in fibroblasts. *J. Immunol.* 143: 1723-1730.
3. Sotzik, F., Boyd, A., and Shortman, K. 1993. Surface antigens of human thymocyte populations defined by CD3, CD4 and CD8 expression: CD1a is expressed by mature thymocytes but not peripheral T cells. *Immunol. Lett.* 36: 101-106.
4. Porcelli, S.A. 1995. The CD1 family: a third lineage of antigen-presenting molecules. *Adv. Immunol.* 59: 1-18.
5. Melian, A., Beckman, E.M., Porcelli, S.A., and Brenner, M.B. 1996. Antigen presentation by CD1 and MHC-encoded class I-like molecules. *Curr. Opin. Immunol.* 8: 82-88.
6. Storkus, W.J., Wei, M., Cresswell, P., and Dawson, J.R. 1996. Class I-like CD1A-C do not protect target cells from NK-mediated cytotoxicity. *Cell. Immunol.* 167: 154-156.
7. Bauer, A., Huttinger, R., Staffler, G., Hansmann, C., Schmidt, W., Majdic, O., Knapp, W., and Stockinger, H. 1997. Analysis of the requirement for  $\beta$  2-microglobulin for expression and formation of human CD1 antigens. *Eur. J. Immunol.* 27: 1366-1373.

### SOURCE

CD1 (22-297) is expressed in *E. coli* as a 58 kDa tagged fusion protein corresponding to amino acids 22-297 of CD1 of mouse origin.

### PRODUCT

CD1 (22-297) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10  $\mu$ g in 0.1 ml SDS-PAGE loading buffer.

### APPLICATIONS

CD1 (22-297) is suitable as a Western blotting control for sc-9161 and sc-7093.

### STORAGE

Store at -20° C; stable for one year from the date of shipment.

### RESEARCH USE

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