CD10 (h): 293T Lysate: sc-111697



The Power to Question

BACKGROUND

CD10, also called the common acute lymphoblastic leukemia antigen (CALLA) and neutral endopeptidase (NEP), is a type II integral membrane glycoprotein. CD10 acts as a zinc metalloprotease that cleaves a variety of biologically active peptides including Angiotensins I and II. It is expressed on early B and T lymphoid precursors, B blasts, some granulocytes, bone marrow stromal cells and certain epithelial cells including some tumor cell lines. CD10 is used as a marker of common acute lymphocytic leukemias and some lymphomas.

REFERENCES

- Horejsi, V., Angelisova, P., Bazil, V., Kristofova, H., Stoyanov, S., Stefanova, I., Hausner, P., Vosecky, M. and Hilgert, I. 1988. Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45 (T200), CD3 (T3), CD43, CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18 kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74). Folia Biol. 34: 23-34.
- Shipp, M.A. and Look, A.T. 1993. Hematopoietic differentiation antigens that are membrane-associated enzymes: cutting is the key! Blood 82: 1052-1070.
- Schlossman, S.L., Bloumsell, W., Gilks, J.M., Harlan, C., Kishimoto, J., Ritz, S., Shaw, R., Silverstein, T., Springer, T.F., Tedder and R.F. Todd, eds. 1995. Leukocyte Typing V: White Cell Differ-entiation Antigens. Oxford: Oxford University Press.
- Lu, B., Gerard, N.P., Kolakowski, L.F., Bozza, M., Zurakowski, D., Finco, O., Carroll, M.C. and Gerard, C. 1995. Neutral endopeptidase modulation of septic shock. J. Exp. Med. 181: 2271-2275.
- Kalled, S.L., Siva, N., Stein, H. and Reinherz, E.L. 1995. The distribution of CD10 (NEP 24.11, CALLA) in human and mice is similar in non-lymphoid organs but differs within the hematopoietic system: absence on murine T and B lymphoid progenitors. Eur. J. Immunol. 25: 677-687.
- 6. Barclay, A.N., Brown, M.H., Law, S.K.A., McKnight, A.J., Tomlinson, M.G. and van der Merwe, P.A., eds. 1997. The Leukocyte Antigens Facts Book, 2nd Edition, CD10 Section, New York: Academic Press, 154.
- 7. Bene, M.C. and Faure, G.C. 1997. CD10 in acute leukemias. Haemotologica 82: 205-210.
- 8. LocusLink Report (LocusID: 4311). http://www.ncbi.nlm.nih.gov/LocusLink/

CHROMOSOMAL LOCATION

Genetic locus: MME (human) mapping to 3q25.2.

PRODUCT

CD10 (h): 293T Lysate represents a lysate of human CD10 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

CD10 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive CD10 antibodies. Recommended use: 10-20 μ l per lane.

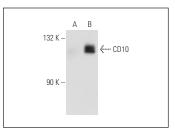
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CD10 (SN5c/L4-1A1): sc-80544 is recommended as a positive control antibody for Western Blot analysis of enhanced human CD10 expression in CD10 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



CD10 (SN5c/L4-1A1): sc-80544. Western blot analysis of CD10 expression in non-transfected: sc-117752 (**A**) and human CD10 transfected: sc-111697 (**B**) 293T whole cell Ivsates.

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.

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