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AM08033RP-N

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Monoclonal Antibody to CD22 - PE

Alternate names: B-cell receptor CD22, B-lymphocyte cell adhesion molecule, BL-CAM, Leu-14, SIGLEC2,

Sialic acid-binding Ig-like lectin 2, Siglec-2

Catalog No.: AM08033RP-N

Quantity: 0.1 mg
Concentration: 0.1 mg/ml

Background: CD22, also known as Lyb-8, is a heterodimeric transmembrane glycoprotein and a member

of a structurally related group of immunoglobulin (Ig) superfamily domain-containing proteins called the sialoadhesin family. It is detected in the cytoplasm early in B cell development (late pro-B cell stage), appears on the cell surface concomitant with IgD, and is found on most IgM+IgD+ mature B lymphocytes. Expression is lost with terminal differentiation of B cells and is absent on plasma cells. Activation of B cells via crosslinking of surface Ig increases CD22 expression. (Ref.1,2) CD22 associates with the B cell receptor (BCR) complex and mediates intercellular adhesion. (Ref.2-4) Its intracellular domain is phosphorylated after antigen receptor crosslinking and is involved in negative

regulation of B-cell activation. (Ref.6-9)

Uniprot ID: P35329

NCBI: NP 001036782.1

GeneID: 12483
Host / Isotype: Rat / IgG1
Clone: 2D6

Format: State: Liquid purified Ig fraction.

Buffer System: PBS containing 0.09% Sodium Azide as preservative and a stabilizing

agent.

Label: PE - R-Phycoerythrin

Applications: Flow Cytometry: $\langle \ \ | = 0.2 \, \mu g / 10e6 \, cells.$ (Ref.2)

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This antibody is specific to CD22 (Mr 150 kDa), a B Lymphocyte Adhesion Molecule.

Species: Mouse.

Other species not tested.

Storage: Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.





General Readings:

- 1. Symington, F.W., B. Subbarao, D.E. Mosier, and J. Sprent. 1982. Immunogenetics 16:381.
- 2. Torres, R.M., C-L. Law, L. Santos-Argumedo, P.A. Kirkham, K. Grabstein, R.M.E. Parkhouse, and E.A. Clark. 1992. J. Immunol. 149:2641.
- 3. Erickson, L.D., L.T. Tygrett, S.K. Bhatia, K.H. Grabstein, and T.J. Waldschmidt. 1996. Int. Immunol. 8:1121.
- 4. Law C.-L. Aruffo, A. Chandran, K.A. Doty, R.T. and Clark, E.A. 1995. J. Immunol. 155:3368.
- 5. Law, C.-L., S.P. Sidorenko, and E.A. Clark. 1994. Immunol. Today 15:442.
- 6. Pezzutto, A., Dorken, B., Moldenhauer, G. amd Clark, E.A. 1988. J. Immunol. 140:1791.
- 7. Doody, G.M., L.B. Justement, C.C. Delbrias, R.J. Matthews, J. Lin, M.L. Thomas, and D.T. Fearon. 1995. Science 269:242.
- 8. Law, C.-L., S.P. Sidorenko, K.A. Chandran, Z. Zhao, S.-H. Shen, E.H. Fischer, and E.A. Clark. 1996. J. Exp. Med. 183:547.
- 9. O'Keefe, T.L., G.T. Williams, S.L. Davies, and M.S. Neuberger. 1996. Science 274:798.

Pictures:

Immunofluoscent Staining: BALB/c splenocytes were double-stained with Rat anti-Mouse CD22-R-PE and Rat anti-Mouse CD19-FITC (Clone 6D5). Small lymphocytes were gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: $0.3~\mu g/10e6$ cells.

