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CD22 Phospho (pY822) Rabbit Monoclonal Antibody Product Data Sheet

Catalog # 1610-1

Clone ID: Y506
Quantity: 100 µl
Type: Rabbit Monoclonal IgG
Species Cross-reactivity: + **Human** - **Mouse** - **Rat**
Applications: + **WB** - **IHC** n/d **ICC** + **Flow Cytometry** - **IP**
Molecular Wt.: 150 kDa
UniProt ID: P20273

Background: CD22, a negative regulator of B cell signaling, belongs to the sialoadhesin family of receptors that preferentially binds to α2-6-linked sialic acid on glycoproteins (1-2). CD22 is known to interact with the B cell antigen receptor (BCR) (3) and the tyrosine phosphatase SHP1. Tyrosine phosphorylation of CD22 leads to the recruitment of multiple intracellular Src homology 2 (SH2) domain-containing effector molecules, including phospholipase C γ and Syk, which are important for triggering Ca2+ influx, as well as PI 3-kinase and Grb2 (4-5). Phosphorylation of Tyrosine 822 is involved in the binding of Syk.

Specificity: A synthetic phospho-peptide corresponding to residues surrounding Tyrosine 822 of human CD22 was used as immunogen. The antibody will detect CD22 phosphorylation on Tyrosine 822. This antibody is predicted to detect splice isoform 2 based on sequence homology.

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:
WB: 1:1,000
Flow Cytometry: 1:10

Background References:
1. Wilson, G. L.; Najfeld, V.; Kozlow, E.; Menniger, J.; Ward, D.; Kehrl, J. H.: J. Immun. 150: 5013-5024, 1993.
2. Nitschke, L., H. Floyd, P. R. Crocker. 2001. Scand. J. Immunol. 53:227
3. Tedder, T. F., J. Tuscano, S. Sato, J. H. Kehrl. 1997. Annu. Rev. Immunol. 15:481
4. Yohannan, J., J. Wienands, K. M. Coggeshall, L. B. Justement. 1999. J. Biol. Chem. 274:18769
5. Otipoby, K. L., K. E. Draves, E. A. Clark. 2001. J. Biol. Chem. 276:44315.

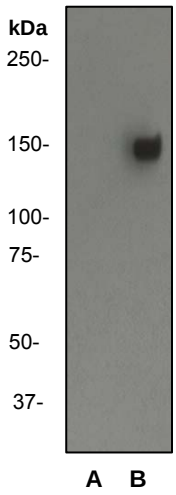

Fig 1. Western blot analysis on Raji cell lysate using anti-Phospho-CD22 (pY822) RabMAb (cat. #1610-1), 1:1,000 dilution.
Cells were either
(A) untreated
(B) treated with Pervanadate

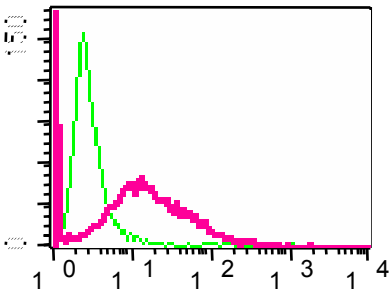

Fig 2. Flow cytometric analysis of permeabilized K562 cells, untreated (green) or Pervanadate-treated (red) using anti-CD22 (pY822) RabMAb (cat. # 1610-1).

Product QC'd by: _____

For research use only. Not for use in diagnostic or therapeutic applications.
This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit www.epitomics.com.

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