

**CD22 Phospho (pY842) Rabbit Monoclonal Antibody  
Product Data Sheet**

**Catalog # 1620-1**

**Clone ID:** Y507

**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  $\eta$  and Syk, which are important for triggering Ca<sup>2+</sup> influx, as well as PI 3-kinase and Grb2 (4-5). Phosphorylation of Tyrosine 842 is involved in the binding of Syk, PLCG2 and PIK3R1/PIK3R2.

**Specificity:** A synthetic phospho-peptide corresponding to residues surrounding Tyrosine 842 of human CD22 was used as immunogen. The antibody will detect CD22 phosphorylation on Tyrosine 842. This antibody is predicted to detect splice isoforms 2 based on sequence homology.

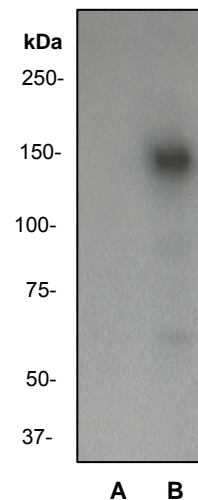
**Storage Conditions:** Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

**Recommended Dilutions:**

WB:1:2,000

**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 (pY842) RabMAb (cat. #1620-1), 1:2,000 dilution. Cells were either (A) untreated (B) treated with Pervanadate

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](http://www.epitomics.com).*

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