

**CD22 Phospho (pY807) Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog # 1621-1

Clone ID: Y505 **Lot #:** YD010306
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 807 is involved in the binding of Syk.

Specificity: A synthetic phospho-peptide corresponding to residues surrounding Tyrosine 807 of human CD22 was used as immunogen. The antibody will detect CD22 phosphorylation on Tyrosine 807. 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.

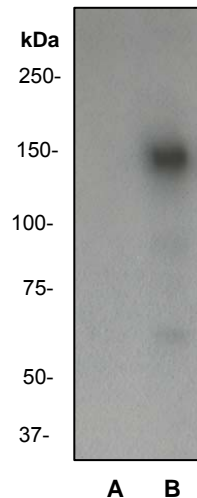


Fig 1. Western blot analysis on Raji cell lysate using anti-Phospho-CD22 (pY807) RabMAb (cat. #1621-1), 1:2,000 dilution. Cells were either (A) untreated (B) treated with Pervanadate

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.