



Product Information Sheet

Polyclonal Anti-CD22

Catalogue No. PA1018

Lot No. 06H01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

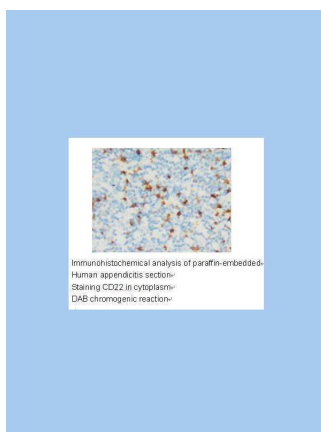
Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Immunocytochemistry



Immunogen

A peptide mapping at the C-terminal end of human CD22, different from the relative sequence of mouse by three amino acids.

Purity

Immunogen affinity purified.

Application

Western blot

At 0.5-1µg/ml with the appropriate system to detect CD22 in cells and tissues.

Immunohistochemistry(P)

At 0.5-1µg/ml to detect CD22 in formalin fixed and paraffin embedded tissues.

Immunohistochemistry(F)

At 0.5-1µg/ml to detect CD22 in formalin or acetone fixed tissues.

Immunocytochemistry

Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

Antagene, Inc.

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BACKGROUND

CD22 is a surface glycoprotein of B lymphocytes that is rapidly phosphorylated on cytoplasmic tyrosines after antigen receptor cross-linking. CD22 is a negative regulator of antigen receptor signaling whose onset of expression at the mature B cell stage may serve to raise the antigen concentration threshold required for B cell triggering. The human CD22 gene is expressed specifically in B lymphocytes and likely has an important function in cell-cell interactions. The B cell coreceptor CD22 plays an important role in regulating signal transduction via the B cell Ag receptor.³ CD22 is located within the band region q13.1 of chromosome 19.

REFERENCE

1. O'Keefe, T. L.; Williams, G. T.; Davies, S. L.; Neuberger, M. S. Hyperresponsive B cells in CD22-deficient mice. *Science* 274: 798-801, 1996.
2. Wilson, G. L.; Najfeld, V.; Kozlow, E.; Menniger, J.; Ward, D.; Kehrl, J. H. Genomic structure and chromosomal mapping of the human CD22 gene. *J. Immun.* 150: 5013-5024, 1993.
3. John, B.; Herrin, B. R.; Raman, C.; Wang, Y.; Bobbitt, K. R.; Brody, B. A.; Justement, L. B. The B cell coreceptor CD22 associates with AP50, a clathrin-coated pit adapter protein, via tyrosine-dependent interaction. *J. Immun.* 170: 3534-3543, 2003.