



# Anti-Human CD22

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>102-P107</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant hCD22. Anti-Human CD22 specific antibody was purified by affinity chromatography employing immobilized hCD22 matrix.

## Target Background

<b>Synonyms (Target):</b>	CD22; SIGLEC2; SIGLEC-2
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Siglec-2 (sialic acid binding Ig-like lectin 2), also known as CD22, is a 130-140 kDa type I transmembrane glycoprotein with seven Ig-like domains in the extracellular region and three ITIM motifs in its cytoplasmic region. Alternate splicing generates an additional isoform that lacks the third and fourth Ig-like domains. Siglec-2 is expressed on B cells, preferentially binds alpha 2-6 linked sialic glycans including CD45 and mediates B cell - B cell interactions. Phosphorylation of Tyr822 within one of the ITIMs is important for Siglec-2 signal transduction through its association with the kinases Lyn, PI 3-Kinase p85 alpha, and SYK.

### Database References Target

<b>Protein RefSeq:</b>	NP_001762.2
<b>Uniprot ID:</b>	P20273
<b>mRNA RefSeq:</b>	NM_001771.3

## Product Specifications

<b>Species reactivity</b>	Human
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	CHO cells derived Recombinant Human sCD22
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

**Western Blot:** To detect hCD22 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hCD22 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

### ELISA:

**Indirect:** To detect hCD22 by indirect ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hCD22.

**Sandwich:** To detect hCD22 by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagent as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hCD22.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**