abcam

Product datasheet

Anti-CD22 (phospho Y822) antibody [Y506] ab32123

RabMAb

★★★☆☆ **1 Abreviews**   **2 References**   4 Images

Overview

Product name	Anti-CD22 (phospho Y822) antibody [Y506]
Description	Rabbit monoclonal [Y506] to CD22 (phospho Y822)
Host species	Rabbit
Specificity	ab32123 recognises CD22 phosphorylation on Tyrosine 822. This antibody is predicted to detect splice isoform 2 based on sequence homology.
Tested applications	**Suitable for:** WB, Flow Cyt, Dot blot **Unsuitable for:** IHC or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Ramos and Raji cell lysates treated with Pervanadate. Flow Cyt: K562 cells treated with Pervanadate.
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	Y506
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab32123 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
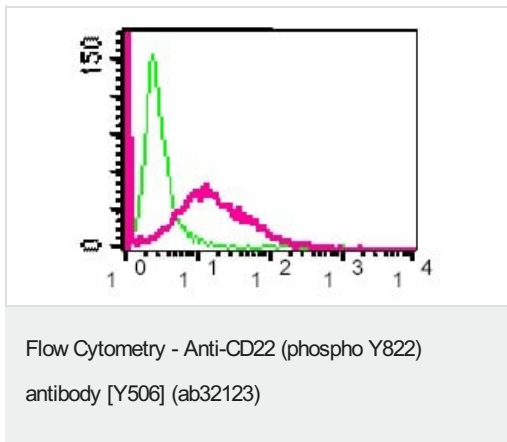
Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 150 kDa (predicted molecular weight: 95 kDa).
Flow Cyt	★★★☆☆ **(1)**	1/10. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
Dot blot		1/1000.

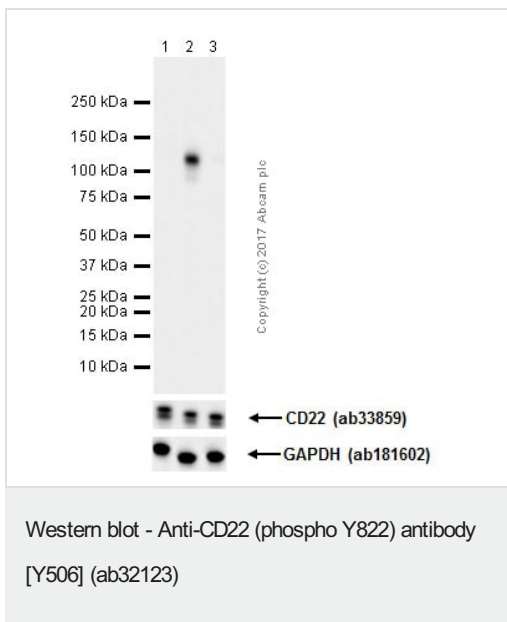**Application notes**   Is unsuitable for IHC or IP.

Target

Function	Mediates B-cell B-cell interactions. May be involved in the localization of B-cells in lymphoid tissues. Binds sialylated glycoproteins; one of which is CD45. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site can be masked by cis interactions with sialic acids on the same cell surface. Upon ligand induced tyrosine phosphorylation in the immune response seems to be involved in regulation of B-cell antigen receptor signaling. Plays a role in positive regulation through interaction with Src family tyrosine kinases and may also act as an inhibitory receptor by recruiting cytoplasmic phosphatases via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules.
Tissue specificity	B-lymphocytes.
Sequence similarities	Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Contains 6 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Domain	Contains 4 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.
Post-translational modifications	Phosphorylation of Tyr-762, Tyr-807 and Tyr-822 are involved in binding to SYK, GRB2 and SYK, respectively. Phosphorylation of Tyr-842 is involved in binding to SYK, PLCG2 and PIK3R1/PIK3R2. Phosphorylated on tyrosine residues by LYN.
Cellular localization	Cell membrane.

Images

Flow Cytometry - Anti-CD22 (phospho Y822) antibody [Y506] (ab32123)

Flow cytometric analysis of permeabilized K562 cells, untreated (green) or Pervanadate treated (red) using ab32123

Western blot - Anti-CD22 (phospho Y822) antibody [Y506] (ab32123)

All lanes : Anti-CD22 (phospho Y822) antibody [Y506] (ab32123) at 1/1000 dilution

Lane 1 : Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate

Lane 2 : Ramos treated with 1mM pervanadate for 30 min whole cell lysate

Lane 3 : Ramos treated with 1mM pervanadate for 30 min whole cell lysate. Then the membrane was incubated with alkaline phosphatase.
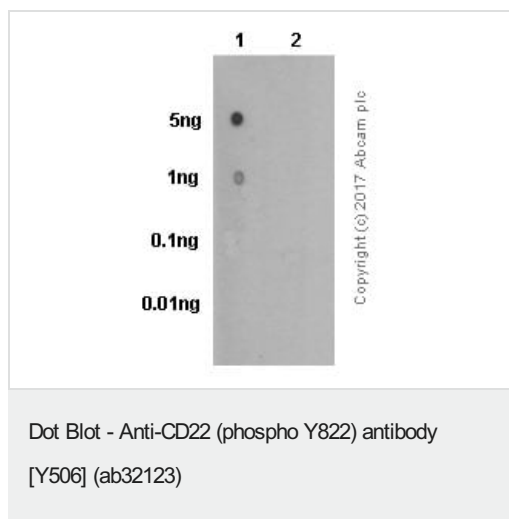
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution
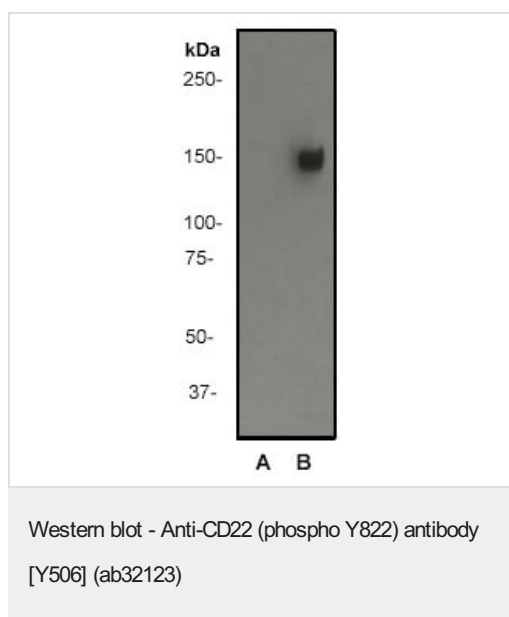
Predicted band size: 95 kDa
Observed band size: 150 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Dot blot analysis of CD22 (phospho Y822) phospho peptide (Lane 1) and CD22 non-phospho peptide (Lane 2) labelling CD22 (phospho Y822) with ab32123 at a dilution of 1/1000. A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) was used as the secondary antibody at a dilution of 1/20,000. Blocking buffer: 5% NFDM/TBST. Dilution buffer: 5% NFDM /TBST.

Dot Blot - Anti-CD22 (phospho Y822) antibody [Y506] (ab32123)

All lanes : Anti-CD22 (phospho Y822) antibody [Y506] (ab32123) at 1/1000 dilution

Lane 1 : Untreated Raji cell lysate
Lane 2 : Raji cell lysate treated with Pervanadate

Predicted band size: 95 kDa
Observed band size: 150 kDa

Western blot - Anti-CD22 (phospho Y822) antibody [Y506] (ab32123)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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