


Product datasheet

Anti-CD22 antibody [IS7] (FITC) ab21844

1 Image

Overview

Product name	Anti-CD22 antibody [IS7] (FITC)
Description	Mouse monoclonal [IS7] to CD22 (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human Predicted to work with: Non human primates 
Immunogen	Tissue/ cell preparation(Human). Burkitt's lymphoma cell line Raji.
General notes	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituents: PBS, BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	IS7
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab21844** 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
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Flow Cyt

Use 4.15µl for 10⁶ cells.

[ab91356](#) - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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

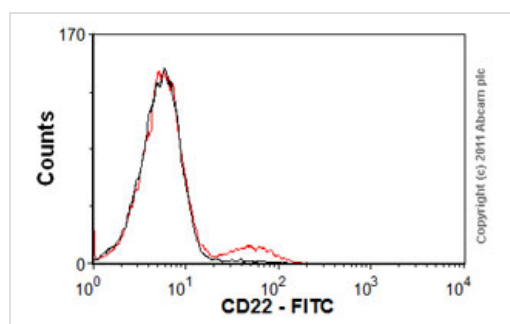
Phosphorylation of Tyr-762, Tyr-807 and Tyr-822 are involved in binding to SYK, GRB2 and SYK, respectively. Phosphorylation of Tyr-842 is involved in binding to SYK, PLCG2 and PIK3R1/PIK3R2.

Phosphorylated on tyrosine residues by LYN.

Cellular localization

Cell membrane.

Images



Overlay histogram showing peripheral blood lymphocytes stained with ab21844 (red line). The cells incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab21844, 0.5 µg/1x10⁶ cells) for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 FITC (2 µg/1x10⁶ cells) for 30 min at 22°C. Acquisition of >5,000 events was performed.

Flow Cytometry - Anti-CD22 antibody [IS7] (FITC) (ab21844)

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