abcam

Product datasheet

PE Anti-CD22 antibody [RFB4] ab23620

2 References

Overview

Product name	PE Anti-CD22 antibody [RFB4]
Description	PE Mouse monoclonal [RFB4] to CD22
Host species	Mouse
Conjugation	PE. Ex: 488nm, Em: 575nm
Specificity	CD22 is in principle a B lineage antigen, that is present in the cytoplasm of progenitor B-cells and on the membrane of the majority of mature peripheral B-lymphocytes. Furthermore, it is strongly expressed on Hairy Cell Leukemia cells and very weakly on some other leukemias. Antigen distribution: Peripheral blood lymphocytes 12±3% T-cells (E+) < 1% B-cells (E-, Ig+) 92±3% Monocytes (CD14+) < 1% Granulocytes < 1% Thymocytes < 1%
Tested applications	**Suitable for:** IHC-Fr, Flow Cyt **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Purified tonsil lymphocytes (Human).
General notes	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. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.3 Preservative: 0.1% Sodium azide Constituent: 1% BSA
Purification notes	Purification by IEP (immunoelectrophoresis).
Primary antibody notes	ab23620 can be used for: - Quantitative determination of peripheral B-cells (CD22+) in blood. - Identification of CD22+-cells in tissue sections. - Determination of B-cell origin of lymphoid

neoplasms. - Quantitative elimination or isolation of B-cells by flow cytometry or magnet beads.

Clonality Monoclonal

Clone number RFB4

Isotype IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab23620 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
IHC-Fr		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. Use maximum of 5ul for 10^6 cells. **ab91357** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IHC-P.

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.

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