Datasheet for ABIN6655314

anti-CD20 antibody (PE)

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Overview

Quantity:	500 µL
Target:	CD20 (MS4A1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD20 antibody is conjugated to PE
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Purpose:	CD20 Phycoerythrin Antibody
Immunogen:	Anti-CD20 Antibody (Monoclonal) was produced by repeated immunizations with CD20 antigen.
Clone:	2H7
Isotype:	IgG2b kappa
Cross-Reactivity (Details):	Reactivity is observed against human CD20 Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Capuchin Monkey, and Squirrel Monkey.
Purification:	Phycoerythrin conjugated CD20 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human CD20.
Sterility:	Sterile filtered
Labeling Ratio:	1-2

Target Details

Target:	CD20 (MS4A1)
Alternative Name:	CD20 (MS4A1 Products)
Background:	Synonyms: B-lymphocyte antigen CD20, B-lymphocyte surface antigen B1, Bp35, Leukocyte surface antigen Leu-16, Membrane-spanning 4-domains subfamily A member 1, CD20 Background: CD20 is a 33-37 kD, four transmembrane spanning protein, also known as B1 and Bp35. CD20 is expressed on pre-B-cells, resting and activated B cells (not plasma cells), some follicular dendritic cells, and at low levels on a T cell subset. CD20 is heavily phosphorylated on activated B cells and malignant B cells. Homo-oligomeric complexes of CD20 are thought to form Ca2+ conductive ion channels in the plasma membrane of B cells. The CD20 Molecule is involved in B-cell activation and is associated with various Src family kinases (Lyn, Lck, Fyn). It exists in a complex with MHC class I and II, CD53, CD81, and CD82. Gene Name: MS4A1
Gene ID:	931
NCBI Accession:	NP_068769
UniProt:	P11836

Application Details

Application Notes:	Immunoprecipitation_Dilution: User Optimized Immunohistochemistry_Dilution: User Optimized Flow_Cytometry_Dilution: 5 µL/1x10e6 cells or 100µL of whole blood
Comment:	Anti-CD20 is tested for Flow Cytometry and is useful in Immunoprecipitation and Immunohistochemistry. Researchers should determine optimal titers for applications that are not stated.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.2 % BSA (w/v) Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide

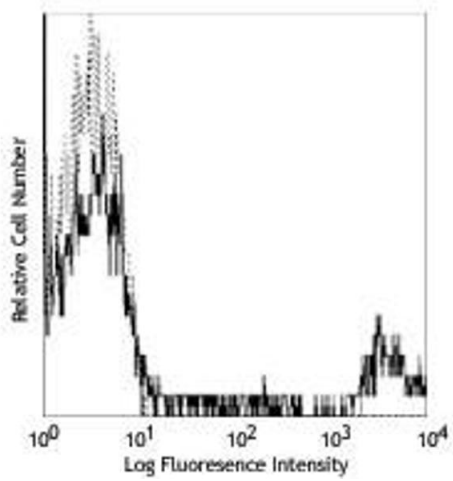
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiry Date:	6 months

Publications

Product cited in:	Tedder, Engel: "CD20: a regulator of cell-cycle progression of B lymphocytes." in: **Immunology today**, Vol. 15, Issue 9, pp. 450-4, (1994) (PubMed). Hultin, Hausner, Hultin, Giorgi: "CD20 (pan-B cell) antigen is expressed at a low level on a subpopulation of human T lymphocytes." in: **Cytometry**, Vol. 14, Issue 2, pp. 196-204, (1993) (PubMed).

Images



Flow Cytometry

Image 1. Flow Cytometry - Mouse anti-CD20 PE Flow Cytometry of Mouse anti-CD20 Phycoerythrin Conjugated Monoclonal Antibody. Cells: human peripheral blood lymphocytes. Stimulation: none. Antibody: (Dotted Line) PE Mouse IgG2b kappa isotype control; (Solid Line) Phycoerythrin Anti-CD20 mouse antibody using 5 ul.