

CD20 Monoclonal Antibody (2H7), PE

Catalog NumberMA1-82403

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human, Rhesus monkey
Host/Isotope	Mouse / IgG2b	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody	Flow Cytometry (Flow)	Neat
Clone	2H7	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Proprietary Immunogen.		
Conjugate	PE		
Form	Lyophilized		
Concentration	Conc. Not Determined		
Purification	Protein A		
Storage buffer	PBS, pH 7.4, with 1% BSA, 5% sucrose		
Contains	0.09% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

Reconstitute with 1 mL of distilled water. After reconstitution, store product undiluted at 4°C in the dark. For FACS analysis, use 10 µL of the suggested working dilution to label 1x10^6 cells in 100 µL. Mouse anti Human CD20 antibody, clone 2H7 recognizes the human CD20 cell surface antigen, a 33-37 kDa non-glycosylated phosphoprotein.

Background/Target Information

CD20 is a non-glycosylated surface phosphoprotein that has a molecular weight range of 33-37 kDa depending on the degree of phosphorylation. CD20 is expressed on mature and most malignant B cells, in a subpopulation of T lymphocytes and follicular dendritic cells. CD20 expression on B cells is synchronous with the expression of surface IgM and it regulates transmembrane calcium conductance, cell cycle progression and B-cell proliferation. CD20 is also associated with lipid rafts, but the intensity of this association depends on extracellular triggering, employing CD20 conformational change, and/or BCR (B cell antigen receptor) aggregation. After the receptor ligation, BCR and CD20 colocalize and then rapidly dissociate before BCR endocytosis, whereas CD20 remains at the cell surface. CD20 serves as a useful target for antibody-mediated therapeutic depletion of B cells, as it is expressed at high levels on most B-cell malignancies, but does not become internalized or shed from the plasma membrane following monoclonal antibody treatment. Diseases associated with CD20 dysfunction include Ms4a1-related common variable immune deficiency.

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