

Anti-CD19, AlpHcAbs[®] Human antibody

Summary

Code	300-519-001
Immunogen	ecombinant human CD19
Host	Alpaca pacous
Isotype	Fab of alpaca IgG1 fused to Human IgG1 Fc(mutation)
Conjugate	Unconjugated
Specificity	Human CD19
Cross-Reactivity	Cross-reactivity with cynomolgus CD19
Purity	Recombinant Expression and Affinity purified
Concentration	1mg/ml
Formation	Liquid, 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300, 50% Glycerol
Storage	Store at -20 °C, (Avoid freeze / thaw cycles), Stable for 12 months at -20°C

Description

Anti-CD19, AlpHcAbs[®] Human antibody is designed for detecting human CD19 specifically. Anti-CD19, AlpHcAbs[®] Human antibody is recombinant fab of alpaca IgG1 fused to Human IgG1 Fc. Based on ELISA, Anti-CD19, AlpHcAbs[®] Human antibody reacts with human CD19, and has reactivity with cynomolgus CD19.

Background

CD19 is a member of the immunoglobulin superfamily and has two Ig like domains. The CD19 molecule is expressed on 100% of the peripheral B cells as defined by expression of kappa or lambda light chains. CD19 appears to be expressed on myeloid leukemia cells, particularly those of monocytic lineage. Leukemia phenotype studies have demonstrated that the earliest and broadest B cell restricted antigen is the CD19 antigen. The receptor for CD19 is an important functional regulator of normal and malignant B cell proliferation, and is expressed in all B cell precursor leukemias. Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. CD19 is a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. Besides being a signal-amplifying coreceptor for the B cell receptor (BCR), CD19 can also signal independently of BCR co-ligation and is a central regulatory component upon which

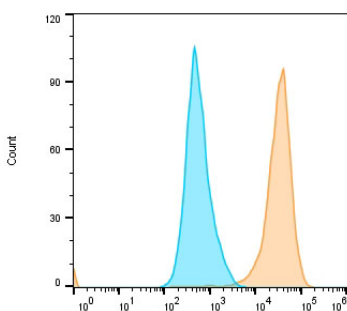
Benefits

- High lot-to-lot consistency
- Increased sensitivity and higher affinity
- Animal-free production

Suggested Working Concentration

ELISA	1:4,000-1:10000
Flow Cytometry	1:200-1:1000

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.



Flow cytometric analysis of CD19-overexpressed HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) labeling CD19 with 300-519-001 at 1:10000 dilution(yellow) compared with Human IgG1-Isotype control(green). Anti-Human IgG(H+L),HcAbs[®] Goat antibody(FITC)(023-403-006), at 1/1000 dilution was used as the secondary antibody.

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