



Anti-BCMA, AlpHcAbs® Human antibody

Summary

Code 300-501-001

Immunogen Recombinant human BCMA/TNFRSF17

Host Alpaca pacous

lsotype VHH domain of alpaca IgG2b/2c fused to Human IgG1 Fc(mutation)

Conjugate Unconjugated Specificity Human BCMA

Cross-Reactivity Cross-reactivity with cynomolgus or alpaca BCMA
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-BCMA, AlpHcAbs® Human antibody is designed for detecting human BCMA/TNFRSF17 specifically. Anti-BCMA, AlpHcAbs® Human antibody is recombinant VHH domain of alpaca IgG2b/2c fused to Human IgG1 Fc. Based on ELISA, Anti-BCMA, AlpHcAbs® Human antibody reacts with human BCMA, and has reactivity with cynomolgus or alpaca BCMA.

Background

BCMA, B cell maturation, is a member of the TNF receptor superfamily. It has been designated TNFRSF17. BCMA is a type III membrane protein containing one extracellular cysteine rich domain. Within the TNFRSF, it shares the highest homology with TACI. BCMA and TACI have both been shown to bind to APRIL and BAFF, members of the TNF ligand superfamily. BCMA expression has been found in immune organs and mature B cell lines. Although some expression has been observed at the cell surface, BCMA appears to be localized to the Golgi compartment. The binding of BCMA to APRIL or BAFF has been shown to stimulate IgM production in peripheral blood B cells and increase the survival of cultured B cells. This data suggests that BCMA may play an important role in B cell development, function and regulation. Human BCMA is a 184 amino acid(aa) protein consisting of a 54 aa extracellular domain, a 23 aa transmembrane domain, and a 107 aa intracellular domain.

Using antibody with Fc(mutation), the background from Fc receptors will be eliminated.

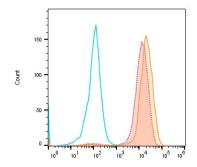
Benefits

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 BCMA-overexpressed HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) labeling BCMA with 300-501-001 at 1:10000 dilution (red)/1:1000(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.

This product is for research use only and is not approved for use in humans or in clinical

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