



Anti-Alpaca IgG2c, AlpHcAbs® Rabbit antibody (Biotin)

Summary

Code 053-202-004

Immunogen Recombinant Fc region of alpaca IgG2c

Host Rabbit Isotype Rabbit IgG

Conjugate Biotin-SP (long spacer)

Specificity Alpaca IgG2c

Cross-Reactivity No cross-reactivity with Alpaca IgG1/2b

Purity Recombinant Expression and Affinity purified

Concentration 1mg/ml

Formation 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300 Storage Store at -20 °C (Avoid freeze / thaw cycles), Stable for 12 months at -20 °C

Description

Anti-Alpaca IgG2c, AlpHcAbs® Rabbit antibody(Biotin) is designed for detecting Alpaca IgG2c specifically. Anti-Alpaca IgG2c, AlpHcAbs® Rabbit antibody(Biotin) is based on monoclonal, recombinant, rabbit IgG Fc fused single chain antibody fragment to Alpaca IgG2c coupled to Biotin, and Anti-Alpaca IgG2c, AlpHcAbs® Rabbit antibody(Biotin) reacts with Alpaca IgG2c selectively, no cross-reactivity with Alpaca IgG1/2b.

Background

The biological family Camelidae comprises camels (one-humped Camelus dromedarius and two-humped Camelus bactrianus), Ilama (Lama glama and Lama guanicoe), and vicugna (Vicugna vicugna and Vicugna pacos). Camelidae contain two kinds of IgG in serum: conventional antibodies (IgG1) containing two light chains and two heavy chains (composed of the VH, CH1, hinge, and CH2 and CH3 domains) and two types of homodimeric heavy-chain antibodies (HCAbs), IgG2 and IgG3, which comprise only H chains; each H chain contains a VHH, hinge, and CH2 and CH3 domains. The smallest intact functional antigen-binding fragment of HCAbs is the single-domain VHH, also known as a nanobody(Nb). Alpaca is also called Vicugna pacos. Alpaca IgG contains IgG1a, IgG2b, IgG2c and IgG3.

Benefits

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

Suggested Working Concentration

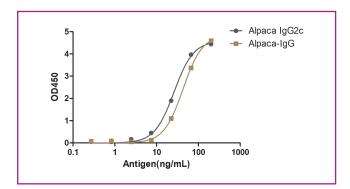
ELISA 1:4000-1:10000 WB 1:4000-1:10000

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.

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

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A titer ELISA of alpaca IgG2c. The plate was coated with different amounts of alpaca IgG2c or alpaca IgG. 1:4000 dilution of Anti-Alpaca IgG2c, AlpHcAbs® Rabbit antibody (Biotin) was used as the primary antibody. An HRP conjugated streptavidin as the secondary antibody.

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