



Anti-Alpaca IgG2c, AlpHcAbs[®] Rabbit antibody

Summary

Code	053-202-001
Immunogen	Recombinant Fc region of alpaca IgG2c
Host	Rabbit
Isotype	Rabbit IgG
Conjugate	Unconjugated
Specificity	Alpaca IgG2c
Cross-Reactivity	No cross-reactivity with Alpaca IgG1/2b
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-Alpaca IgG2c, AlpHcAbs[®] Rabbit antibody is designed for detecting Alpaca IgG2c specifically. Anti-Alpaca IgG2c, AlpHcAbs[®] Rabbit antibody is monovalent, recombinant single chain antibody fragment fused to rabbit IgG Fc. Based on immunoelectrophoresis and/or ELISA, Anti-Alpaca IgG2c, AlpHcAbs[®] Rabbit antibody 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*), llama (*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, IgG1b, IgG2b, IgG2c and IgG3.

Benefits

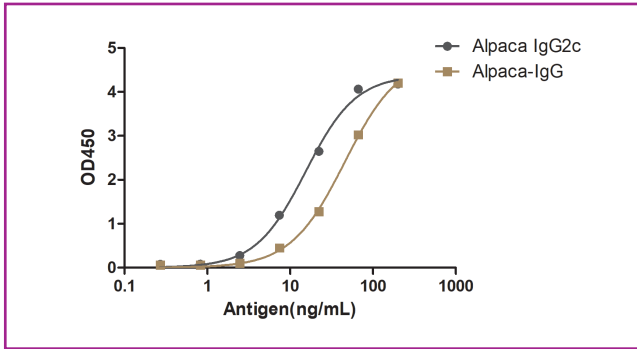
High lot-to-lot consistency
Increased sensitivity and higher affinity
Animal-free production

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



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 was used as the primary antibody. An HRP conjugated anti-Rabbit IgG as the secondary antibody.

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