



Anti-Llama IgG(H+L), AlpHcAbs® Goat antibody(FITC)

Summary

Code	065-404-006
Immunogen	Llama immunoglobulins
Host	Goat
Isotype	Goat IgG
Conjugate	FITC(Ex=493nm, Em=528nm), 3 moles FITC per mole IgG
Specificity	Llama IgG(H+L)
Cross-Reactivity	Llama IgG and with light chains common to other Llama immunoglobulins(such as IgA, IgM). No was detected against non-immunoglobulin serum proteins. The antibody may cross-react with immunoglobulins from other species.
Purity	Affinity purified
Concentration	1mg/ml
Formation	Liquid, 10mM PBS pH 7.5, 10mg/ml BSA, 100mM trehalose, 50% glycerol
Storage	Store at -20 °C(Avoid freeze / thaw cycles), Protect from light

Description

Anti-Llama IgG(H+L), AlpHcAbs® Goat antibody(FITC) is designed for detecting Llama IgG(H+L) specifically. Based on immunoelectrophoresis and/or ELISA, Anti-Llama IgG(H+L), AlpHcAbs® Goat antibody(FITC) reacts with Llama IgG heavy chain and light chain selectively.

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 (HCAs), 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 HCAs is the single-domain VHH, also known as a nanobody(Nb).

Llama heavy chain only antibodies provide a framework for engineering recombinant antibodies. The monomeric variable domain (VHH) of heavy chain only camelid IgG2 and IgG3 provides a 12-15 kDa domain which is easy to clone and produce at high levels in recombinant systems, is stable to heat and pH extremes, and generally, has good solubility.

Benefits

High lot-to-lot consistency
Increased sensitivity and higher affinity

Application notes

ICC/IF	1:200-1:2000
IHC-P	1:200-1:2000

Almost it can be used for VHH that come from Llama

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