Datasheet for ABIN5608790

Llama IgG1 Isotype Control

1 Image

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Overview

Quantity:	0.5 mg
Target:	IgG1
Reactivity:	Llama
Host:	Llama
Application:	Flow Cytometry (FACS), ELISA, Western Blotting (WB)

Product Details

Isotype:	IgG1
Purification:	Llama IgG1 isotype control has been prepared from llama serum by multiple chromatography steps using a combination of protein A and protein G chromatography. Coomassie stained SDS-PAGE of non-reduced llama IgG1 shows a band of ~150 kDa whereas the reduced form exhibits ~55 kDa (heavy chain) and ~25 kDa (light chain). No bands corresponding to llama IgG2 or IgG3 are observed.

Target Details

Target:	IgG1
Abstract:	IgG1 Products
Target Type:	Antibody

Application Details

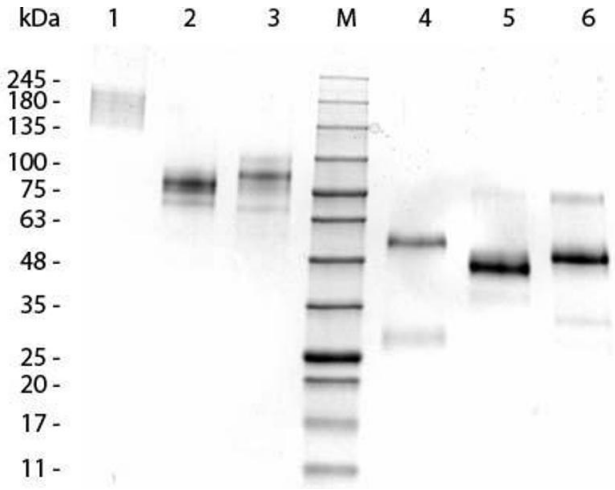
Application Notes:	Flow Cytometry Dilution: User Optimized

Application Details

	Application Note: Llama IgG1 isotype control can be utilized as a control or standard reagent in Flow Cytometry, Western Blotting, and ELISA experiments where determination of sample isotype is important. Llama IgG1 is buffered in 0.075 M Tris, 0.375 M NaCl, 25 % glycerol. Western Blot Dilution: User Optimized ELISA Dilution: User Optimized
Comment:	Comparative studies of old world camelids (Camelus bactrianus and Camelus dromedarius) and new world camelids (Lama pacos, Lama glama and Lama vicugna) have shown that heavy-chain-only immunoglobulins represent between 35 % - 70 % of total IgG in the sera of all species. Such antibodies are homodimers of heavy chains that lack the CH1 domain of conventional antibodies and therefore do not interact with light chains, exhibiting a lower molecular weight ~100 kDa. In llama and other species of camelids, these heavy-chain-only immunoglobulins belong to the IgG2 and IgG3 subclasses. All gamma chain camelid antibodies exhibiting the more conventional assembly of two light and two heavy chains with molecular weight ~150 kDa, belong to the IgG1 subclass.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: See application note.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months



SDS-PAGE

Image 1. SDS-PAGE of Llama IgG1 Isotype Control. Lane 1: Llama IgG1, Non-reduced. Lane 2: Llama IgG2, Non-reduced. Lane 3: Llama IgG3, Non-reduced. M: 3µL Opal Pre-stained Ladder (MB-210-0500). Lane 4: Llama IgG1, Reduced. Lane 5: Llama IgG2, Reduced. Lane 6: Llama IgG3, Reduced. Load: 1.0 µg per lane. Predicted/Observed size: Non-reduced 180 kDa; Reduced 55 kDa, 25 kDa.