

Datasheet for 025-0644**Llama IgG2 isotype control Biotin****Overview**

Description:	Llama IgG2 Isotype Control Biotin Conjugated - 025-0644
Item No.:	025-0644
Size:	100 µg
Applications:	Dot Blot
Origin:	Llama

Product Details

Background:	Comparative studies of old world camelids (<i>Camelus bactrianus</i> and <i>Camelus dromedarius</i>) and new world camelids (<i>Lama pacos</i>, <i>Lama glama</i> and <i>Lama vicugna</i>) 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 of gamma chain antibodies.
Synonyms:	Llama IgG2 isotype, Llama IgG2 subclass isotype, Llama IgG2a, IgG2b, IgG2c, Llama IgG2 Biotin Conjugated, Llama IgG2 BAC, Llama isotype control
Species of Origin:	Llama
Conjugate:	Biotin
Format:	IgG
Type:	Native Protein

Target Details

Purity/Specificity:	Llama IgG2 isotype control (which consists of IgG2a, IgG2b and IgG2c isotypes) 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 unconjugated llama IgG2 shows a band of ~100 kDa whereas the reduced form exhibits ~46 kDa. No bands corresponding to unconjugated llama IgG1 or IgG3 are observed. Biotin Conjugated Llama IgG2 was proven by Dot Blot.
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Application Details

Tested Applications:	Dot Blot
Application Note:	Llama IgG2 Biotin conjugated isotype control has been tested by dot blot and can be utilized in Flow Cytometry, ELISA, and western blotting experiments where determination of sample isotype is important.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
FC:	User Optimized
WB:	User Optimized

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 μ L
Reconstitution Buffer:	Restore with deionized water (or equivalent)

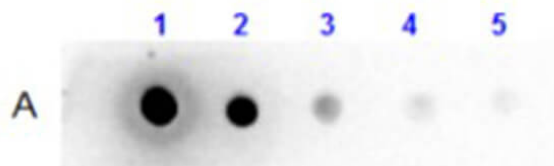
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Dot Blot

Dot Blot Results of Llama IgG2 Isotype control Biotin Conjugated. Llama IgG2 Isotype control Biotin Conjugate (1) 100ng, (2) 33.33ng, (3) 11.11ng, (4) 3.70ng, (5) 1.23. Antibody: Streptavidin (p/n S000-01) at 1:40,000 for 30 mins at RT. Block: BlockOut (p/n MB-073) for 30 mins at RT. Exposure: 1 sec.

**Disclaimer**

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