



# SZABO SCANDIC

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Diagnostik & molekulare Diagnostik



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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**Datasheet for 025-0140**

## Llama IgG1 isotype control

### Overview

<b>Description:</b>	Llama IgG1 Isotype Control - 025-0140
<b>Item No.:</b>	025-0140
<b>Size:</b>	0.5 mg
<b>Applications:</b>	SDS-PAGE
<b>Origin:</b>	Llama

### Product Details

**Background:** 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.

<b>Synonyms:</b>	Llama IgG1 isotype, Llama IgG1 subclass isotype
<b>Species of Origin:</b>	Llama
<b>Format:</b>	IgG1
<b>Type:</b>	Native Protein

### Target Details

**Purity/Specificity:** 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.

## Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Application Note:</b>	Llama IgG1 isotype control has been tested by SDS-Page and 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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	User Optimized
<b>FC:</b>	User Optimized
<b>IF:</b>	User Optimized
<b>WB:</b>	User Optimized
<b>Other:</b>	Lot approved for SDS page at 1x reduced and non-reduced applications.

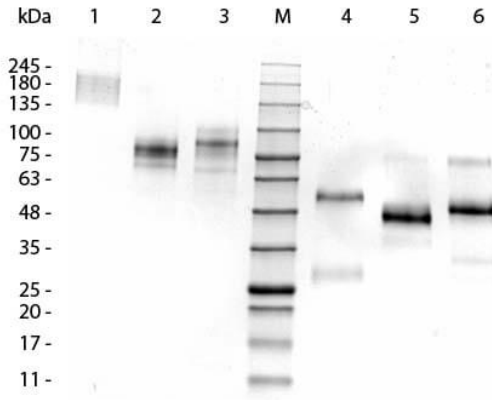
## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1.0 mg/ml by modified Lowry assay
<b>Buffer:</b>	See application note.
<b>Preservative:</b>	0.01% (w/v) Sodium Azide

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	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.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images

**SDS-PAGE**

SDS-PAGE of Llama IgG1 Isotype Control. Lane 1: Llama IgG1 (p/n 025-0140), Non-reduced. Lane 2: Llama IgG2 (p/n 025-0143), Non-reduced. Lane 3: Llama IgG3 (p/n 025-0144), Non-reduced. M: 3 $\mu$ L 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  $\mu$ g per lane. Predicted/Observed size: Llama IgG1 Non-reduced 180 kDa; Reduced 55 kDa, 25 kDa.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.