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Datasheet for 019-001-002

Armenian Hamster IgG isotype Control

Overview

Description:	Armenian Hamster IgG Whole Molecule Isotype Control - 019-001-002
Item No.:	019-001-002
Size:	1 mg
Applications:	SDS-PAGE, Other
Origin:	Armenian Hamster

Product Details

Background:	Armenian Hamster isotype controls are used in flow cytometry, western blot and ELISA and differentiate between immunoglobulin classes and subclasses. Isotype controls allow for the genetic variations or differences in the constant regions of the heavy and light chains. In hamster there are six relevant heavy chain isotypes and two light chain isotypes: heavy chain alpha - IgA, gamma - IgG 1, 2a, 2b, 3 and μ - IgM, light chain kappa and lambda.
Synonyms:	Armenian Hamster IgG isotype Control, A. Hamster IgG control, Control Protein, Isotype Protein
Species of Origin:	Armenian Hamster
Type:	Native Protein

Target Details

Purity/Specificity:	ARMENIAN HAMSTER IgG whole molecule was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Armenian Hamster IgG. Greatly diminished reactivity will occur against anti-Golden Syrian Hamster IgG.

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Other (Based on references)

Application Note:	ARMENIAN HAMSTER IgG whole molecule has been tested in SDS-Page and can be utilized as a control or standard reagent in Western Blotting and ELISA experiments. Specific conditions should be optimized by user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	1:1000-1:5000
FLISA:	User Optimized
IF:	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:	None
Reconstitution Volume:	1.0 mL
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

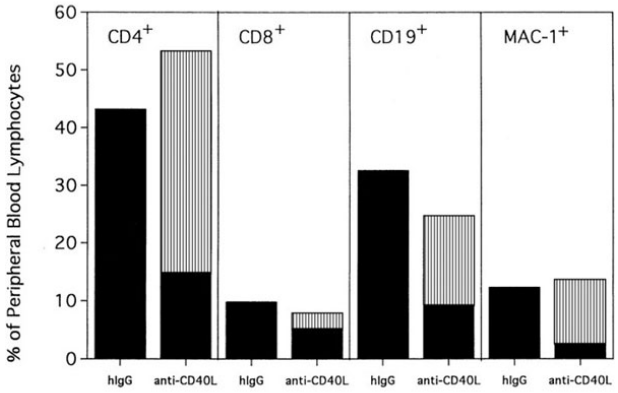
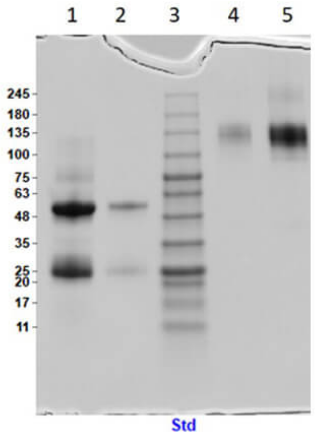


Figure
Anti-CD154–facilitated alloengraftment is multilineage. Twenty mice from 2 representative experiments were phenotyped at 120 days after BMT for donor-host origin of CD4+ and CD8+ T cells, CD19+ B cells, and MAC-1+ myeloid cells. On the x-axis are shown the host and donor proportions of each of the lineages. ▪ indicates the proportion of each lineage of host origin; ▯, the proportion of each lineage that is of donor origin. On the y-axis is shown the percentage of PBLs of each lineage. Irrelevant hIgG–treated mice had no detectable donor chimerism and thus are composed entirely of host-type cells. Note that most CD4+ T cells, CD19+ B cells, and MAC-1+ myeloid cells in anti-CD154–treated mice are of donor origin. In contrast, most of the CD8+ T cells are of host origin. irrelevant hamster IgG (hIgG) (p/n 019-001-002). Fig. 3. PMID: 11435318.



SDS-PAGE
SDS PAGE Results of Armenian Hamster IgG Whole Molecule Isotype Control. Lane 1: Armenian Hamster IgG Reduced [5.0µg]. Lane 2: Armenian Hamster IgG Reduced [1.0µg]. Lane 3: Lane 4: Armenian Hamster IgG Non-Reduced [1.0µg]. Lane 5: Armenian Hamster IgG Non-Reduced [5.0µg]. 4-20% Gel, Coomassie Stained.

References

- Dimitrios Mathios et al. Therapeutic administration of IL-15 superagonist complex ALT-803 leads to long-term survival and durable antitumor immune response in a murine glioblastoma model. *Int J Cancer.* (2016)
- Dallas B Flies et al. Mechanistic Assessment of PD-1H Coinhibitory Receptor-Induced T Cell Tolerance to Allogeneic Antigens. *J Immunol.* (2015)
- PA Taylor et al. Requirements for the promotion of allogeneic engraftment by anti-CD154 (anti-CD40L) monoclonal antibody under nonmyeloablative conditions. *Blood.* (2001)

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