

Datasheet for 011-001-297**Low Endotoxin Control Rabbit IgG****Overview**

Description:	Low Endotoxin Control Rabbit IgG - 011-001-297
Item No.:	011-001-297
Size:	500 µg
Applications:	ELISA, Other
Origin:	Rabbit

Product Details

Background:	Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the compliment cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present.
Synonyms:	Rabbit immunoglobulin G, Low EU Immunoglobulin control, Low EU standard
Species of Origin:	Rabbit
Type:	Native Protein
Low Endotoxin:	Yes

Target Details

Purity/Specificity:	Low Endotoxin Control Rabbit IgG is an IgG preparation of whole rabbit serum purified by protein A chromatography using a low endotoxin methodology.
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Application Details

Tested Applications:	ELISA
Suggested Applications:	Other (Based on references)

Application Note: Low Endotoxin Control Rabbit IgG has been tested in ELISA and can be utilized as a control or standard reagent in Western Blotting and ELISA experiments.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: User Optimized

IHC: User Optimized

Neutralization: User Optimized

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

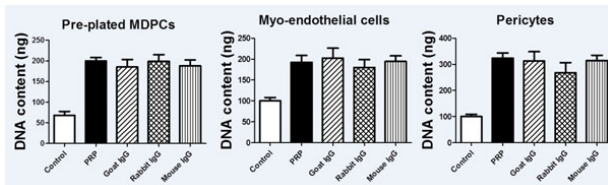
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: 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. Low Endotoxin Control Rabbit IgG is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

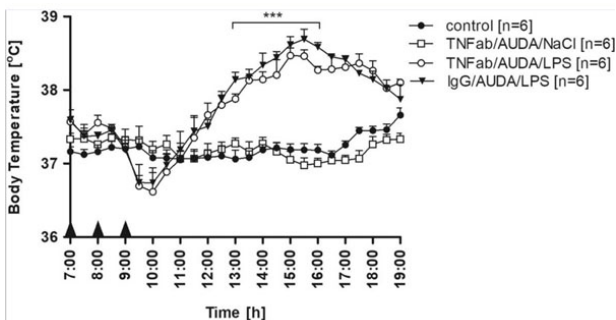
Expiration: Expiration date is six (6) months from date of receipt.

Images



Neutralization

Negative controls of neutralization assay. Low endotoxin isotype control Abs were added (goat IgG, 100 µg/ml; rabbit IgG, 2 µg/ml; mouse IgG, 1 µg/ml) to the 10% PRP supplemented media as controls. No significant changes in proliferation were noticed when adding the isotype control Abs to the PRP supplemented hMDPC cultures compare to the PRP groups (n=4). Low Endotoxin Control Rabbit IgG (p/n 011-001-297). Figure S1. PMID: 23762264.



ELISA

Changes of body temperature (°C) over time (h) of rats treated intraperitoneally at 7:00 with TNF-α antibodies (50 µg/rat i.p.) and at 8:00 with AUDA in a dose of 15 mg/kg an hour before LPS (50 µg/kg i.p.) (open circles) or NaCl (open squares) administration. Closed triangles represent Tb of rats treated at 7:00 with IgG (50 µg/rat i.p.) and at 8:00 with AUDA an hour before LPS injection (both in same concentration as above). Closed circles represent normal circadian rhythm of body temperature in non-treated rats. Sample size is indicated in parentheses. Black arrowheads represent the time of injection. Values are means ± SEM at 30-min averages. Asterisks indicate significant difference (***) p < 0.001 between experimental groups “TNFab/AUDA/LPS” and “IgG/AUDA/LPS”. Low Endotoxin Control Rabbit IgG (p/n 011-001-297). Fig. 6. PMID: 28741242.

References

- Piotrowski, J et al. The weakening effect of soluble epoxide hydrolase inhibitor AUDA on febrile response to lipopolysaccharide and turpentine in rat. *Journal of Physiology and Biochemistry* (2017)
- Li, H et al. Platelet-rich plasma promotes the proliferation of human muscle derived progenitor cells and maintains their stemness. *PLoS One* (2013)

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.