

Datasheet for 002-0102-0002**Cat IgG****Overview**

Description:	Cat IgG Whole Molecule - 002-0102-0002
Item No.:	002-0102-0002
Size:	2 mg
Applications:	SDS-PAGE
Origin:	Feline

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 complement 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. Cat IgG whole molecule is ideal for researchers in Cancer, Immunology, and Cell Biology.
Synonyms:	Cat immunoglobulin Gamma, Feline IgG
Species of Origin:	Feline
Format:	IgG
Type:	Native Protein

Target Details

Purity/Specificity:	Cat 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. Cat IgG whole molecule assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Cat IgG and anti-Cat Serum.
----------------------------	--

Application Details

Tested Applications:	SDS-PAGE
Application Note:	Cat 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IHC:	User Optimized
WB:	User Optimized

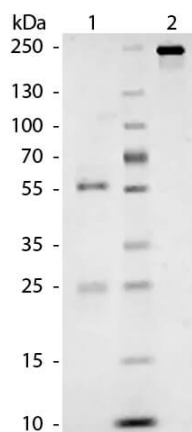
Formulation

Physical State:	Lyophilized
Concentration:	2.0 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
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 opening. This product is stable 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



SDS-PAGE

SDS-Page of Cat IgG Whole Molecule. Lane 1: Cat IgG – Reduced. Lane 2: Cat IgG – Non-Reduced. Load: 1.0 µg per lane. Predicted/Observed size: 28 & 55 kDa – Reduced, 160 kDa – Non-Reduced for IgG. Other Band(s): None.

References

- Godin P et al. Gene therapy delivery of anti-Müllerian hormone in prepubertal female domestic cats induces long-term sterilization. *Nat Commun.* (2025)

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.