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Datasheet for 005-0102

Goat IgG

Overview

Description:	Goat IgG Whole Molecule (BULK ORDER) - 005-0102
Item No.:	005-0102
Size:	25 mg
Applications:	SDS-PAGE, Other
Origin:	Goat

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:	Goat immunoglobulin G
Species of Origin:	Goat
Format:	IgG
Type:	Native Protein

Target Details

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

Application Details

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

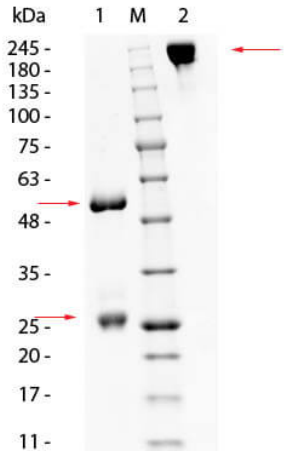
Formulation

Physical State:	Lyophilized
Concentration:	10.0 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:	2.5 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

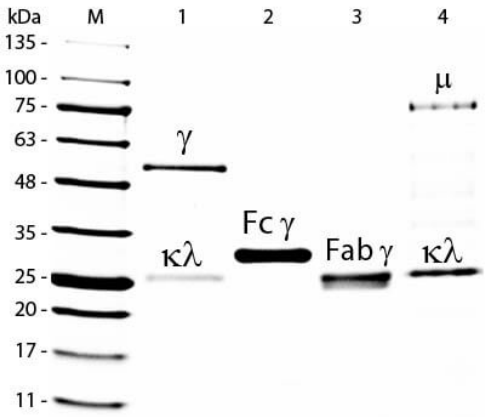
Shipping & Handling

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. Goat IgG whole molecule 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



SDS-PAGE
SDS-PAGE of Goat IgG Whole Molecule. Lane 1: Reduced Goat IgG Whole Molecule. Lane 2: 3 µL OPAL Pre-stained Marker (p/n MB-210-0500). Lane 3: Non-reduced Goat IgG Whole Molecule. Load: 1 µg per lane. Predicted/Observed size: Non-reduced at 160 kDa/observed at 180-200 kDa; Reduced at 55, 25 kDa. Non-reduced migrates at slightly higher molecular weight.



SDS-PAGE
SDS-PAGE of Goat IgG Whole Molecule Rhodamine Conjugated (p/n 005-0002). Lane M: 5 µL Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Goat IgG Whole Molecule Rhodamine Conjugated (p/n 005-0002). Lane 2: Reduced Goat IgG F(c) Fragment (p/n 005-0103). Lane 3: Reduced Goat IgG F(ab) Fragment (p/n 005-0105). Lane 4: Reduced Goat IgM Whole Molecule (p/n 005-0107). Load: 1 µg for IgG, F(c) and F(ab); 3 µg for IgM. Predicted/Observed size: IgG at 50 and 25 kDa; F(c) at 25 kDa; F(ab) at 25 kDa; IgM at 70 and 23 kDa. Observed F(c) Fragment migrates slightly higher.

References

- Yamada Y et al. Efficient and high-speed transduction of an antibody into living cells using a multifunctional nanocarrier system to control intracellular trafficking. *J Pharm Sci.* (2015)

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