

Datasheet for 017-0102-0001**Monkey IgG****Overview**

Description:	Monkey IgG Whole Molecule - 017-0102-0001
Item No.:	017-0102-0001
Size:	1 mg
Applications:	SDS-PAGE, ELISA
Origin:	Monkey

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.
Synonyms:	Monkey immunoglobulin G
Species of Origin:	Monkey
Format:	IgG
Type:	Native Protein

Target Details

Purity/Specificity:	Monkey 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. Monkey IgG whole molecule was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Monkey IgG and anti-Monkey Serum.
Relevant Links:	017-0102 SDS

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	ELISA (Based on references)
Application Note:	Monkey IgG whole molecule has been tested by SDS-Page and can be utilized as a control or standard reagent in SDS, 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

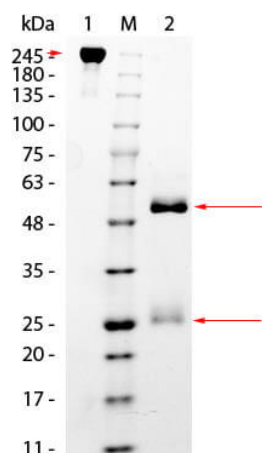
Formulation

Physical State:	Lyophilized
Concentration:	2.2 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:	500 µL
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 Monkey IgG Whole Molecule. Lane 1: Non-Reduced Monkey IgG Whole Molecule. Lane 2: 5 µL Opal Prestained Marker (MB-210-0500). Lane 3: Reduced Monkey IgG Whole Molecule. Load: 1 µg per lane. Predicted/Observed size: Non-Reduced at 160 kDa, Observed at greater than 180; Reduced at 55, 25 kDa. Non-reduced sample migrates higher due to large molecular weight.

References

- Smith JC et al. Induction of Tier 2 HIV-Neutralizing IgA Antibodies in Rhesus Macaques Vaccinated with BG505.664 SOSIP. *Vaccines (Basel)*. (2024)
- Smith TJ. et al. Engineered IgM and IgG cleaving enzymes for mitigating antibody neutralization and complement activation in AAV gene transfer. *Mol Ther*. (2024)
- Westcott MM et al. Immunogenicity in African green monkeys of m protein mutant vesicular stomatitis virus vectors and contribution of vector-encoded flagellin. *Vaccines (Basel)*. (2018)

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