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Datasheet for 011-0004

Rabbit IgG F(ab')2 Rhodamine

Overview

Description:	Rabbit IgG F(ab')2 Fragment Rhodamine Conjugated - 011-0004
Item No.:	011-0004
Size:	1 mg
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 opsinization for phagocytosis. This product possesses the F(ab')2 fragment, recognized by the two F(ab) fragments yielded from the digestion of the antibody below the disulfide bond hinge region.
Synonyms:	Rabbit IgG F(ab')2 fragment Rhodamine conjugation, TRITC conjugated Rabbit IgG F(ab')2 fragment
Species of Origin:	Rabbit
Conjugate:	Rhodamine (TRITC)
Format:	IgG F(ab')2
Type:	Native Protein
F/P Ratio:	2.0

Target Details

Purity/Specificity:	This product was prepared from normal serum by delipidation, salt fractionation, ion exchange chromatography followed by pepsin digestion and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit IgG, anti-Rabbit IgG F(ab')2 and anti-Rabbit Serum. No reaction was observed against anti-Rabbit IgG F(c) or anti-Pepsin.

Application Details

Application Note:	Rabbit IgG F(ab')2 fragment Rhodamine is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

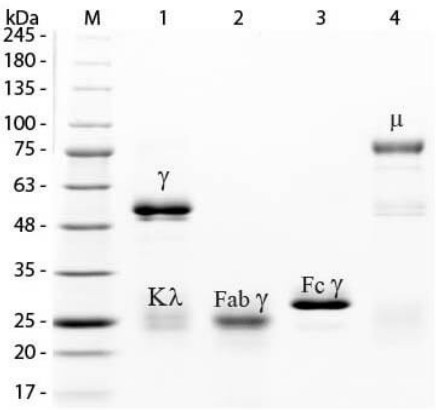
Formulation

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:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
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



SDS-PAGE

SDS-PAGE of Rabbit IgG Whole Molecule Rhodamine Conjugated (p/n 011-0002). Lane M: 3 µL Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Rabbit IgG Whole Molecule Rhodamine Conjugated (p/n 011-0002). Lane 2: Reduced Rabbit IgG F(ab) Fragment (p/n 011-0105). Lane 3: Reduced Rabbit IgG F(c) Fragment (p/n 011-0103). Lane 4: Reduced Rabbit IgM Whole Molecule (p/n 011-0107). Load: 1 µg for F(ab) and F(c); 1.2 µg for IgG and 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.

Disclaimer

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