

Datasheet for 002-0604

Cat IgG F(ab')₂ Biotin**Overview**

Description:	Cat IgG F(ab') ₂ Fragment Biotin Conjugated - 002-0604
Item No.:	002-0604
Size:	1 mg
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. 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:	Cat IgG F(ab') ₂ fragment Biotin conjugated, Cat IgG Fab2 fragment BAC conjugated
Species of Origin:	Feline
Conjugate:	Biotin
Format:	IgG F(ab') ₂
Type:	Native Protein

Target Details

Purity/Specificity:	This product was prepared from normal serum 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-biotin, anti-Cat IgG, anti-Cat IgG F(ab') ₂ and anti-Cat Serum. No reaction was observed against anti-Cat IgG F(c) or anti-Pepsin.
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Application Details

Application Note:	CAT IgG F(ab') ₂ fragment Biotin conjugated is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also
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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.
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Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL
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.

References

- Nishibori S et al. Engineering an Fc-inert feline IgG1 by targeted mutations: Application to anti-PD-1 antibody development. *Vet Immunol Immunopathol.* (2025)

Disclaimer

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