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# cappel

**FLUORESCHEIN-CONJUGATED GOAT F(AB')<sub>2</sub> FRAGMENT  
TO HUMAN IGG (WHOLE MOLECULE) - 2ML**

**Catalog #:** 55180

**Lot #:** 02858

Total Protein: 25.0 mg/ml  
F/P Ratio: 5.0 mol/mol  
Antibody Protein: 10 mg/ml

## DESCRIPTION:

Product is the lyophilized powder of fluorescein-5-isothiocyanate (FITC "Isomer I")-conjugated goat F(ab')<sub>2</sub> fragment to human IgG (whole molecule) and buffer salts.

Antibody and FITC are conjugated under defined conditions to obtain the specified molar ratio (3-6 mol/mol). Conjugated protein is purified by gel filtration. The product is dialyzed into 0.02M sodium phosphate, 0.14M sodium chloride, pH 7.3, with 0.05% sodium azide, adjusted to standard titer, filtered through a 0.22 µm filter, vialled, and lyophilized.

## USES:

This product is suitable for use as a reagent in immunofluorescence assays (IFA), cell staining (fluorescent microscopy and cell sorting), tissue staining, and blot immunostaining. F(ab')<sub>2</sub> fragments are recommended for staining of cells or tissues which contain Fc receptors. (Note: Affinity purified antibodies and their F(ab')<sub>2</sub> fragments are recommended to avoid non-specific binding from the inherent antibodies of host animals. See **Related Product Ordering Information** for these products.)

## SPECIFICATIONS:

The total protein is measured using the Biuret procedure with bovine albumin as the standard; F/P ratio is calculated using absorbance at 491.5nm. Antibody titer of the IgG fraction is standardized by equivalence-point precipitation. The F(ab')<sub>2</sub> fragments are tested for purity and specificity at a minimum of 20 mg/ml using immunoelectrophoresis. The product is goat F(ab')<sub>2</sub>; no trace of albumin, whole molecule IgG or Fc is detected. This product shows reactivity to human IgG; cross-reactivity to other species may exist. Because the product is directed against whole IgG, some antibodies are expected to bind light chain sites common to all immunoglobulins. Antibody activity to non-immunoglobulin serum proteins is not present.

## RECONSTITUTION:

Reconstitute product with 2.0 ml of deionized or distilled water. Gentle swirling may be used to speed rehydration. Avoid vigorous shaking of the reconstituted material.

## STORAGE:

Store lyophilized product at 2-8°C. Store reconstituted material no longer than 4 weeks at 2-8°C. For long-term storage, aliquot and freeze reconstituted product at -20°C or lower.

**WARNING AND CAUTION:**

This product is intended **FOR RESEARCH USE ONLY**, not for use in diagnostic or therapeutic procedures involving humans or animals.

This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strongly acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water.

**RELATED PRODUCT ORDERING INFORMATION:**

Catalog #   Description   Size

55087 GOAT ANTI-HUMAN IGG (WHOLE MOLECULE) 2ML  
55007 IGG GOAT ANTI-HUMAN IGG (WHOLE MOLECULE) 5ML  
55049 F(AB')<sub>2</sub> GOAT ANTI-HUMAN IGG (WHOLE MOLECULE) 2ML  
55067 FAB GOAT ANTI-HUMAN IGG (WHOLE MOLECULE) 5ML  
55070 AFF.PUR. GOAT ANTI-HUMAN IGG (WHOLE MOLECULE) 2MG  
55075 AFF.PUR. F(AB')<sub>2</sub> GOAT ANTI-HUMAN IGG (WM) 2MG  
55908 PURIFIED HUMAN IGG 50MG  
55984 NORMAL GOAT SERUM 2ML

**For additional fluorochrome, enzyme, and biotin conjugates, peroxidase substrates, and antisera to human IgG subclasses, please see our catalog.**

  
Approved by: Joseph Dietz, Ph.D.  
Quality Control Director

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OR TO OBTAIN TECHNICAL ASSISTANCE IN THE U.S., PLEASE CALL 800-279-5490  
OUTSIDE THE U.S., CONTACT YOUR LOCAL DISTRIBUTOR.