

**R1406R****F(ab')<sub>2</sub> Fragment of Goat anti-Mouse IgG F(c) Ads. to Bov, Eq, Hu - PE****Alternate names:** Mouse Immunoglobulin G**Quantity:** 0.5 mg**Concentration:** 0.5 mg/ml (determined by absorbance = 82.0 at 565 nm for a 1% solution for only those R-PE molecules to which at least one molecule of active antibody is bound).**Host:** Goat**Immunogen:** Human IgG F(c) fragment.**Format:** **State:** Lyophilized F(ab')<sub>2</sub> fragments**Purification:** Immunoaffinity Chromatography using Human IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities, pepsin digestion and chromatographic separation.**Buffer System:** 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2**Preservatives:** 0.01% (w/v) Sodium Azide**Stabilizers:** 10 mg/ml BSA (IgG and Protease free)**Label:** PE – R-Phycoerythrin ( (Molecular Weight 240,000 daltons)*Absorption / Emission:* 488 nm / 575 nm**Reconstitution:** Restore with 1.0 ml deionized Water (or equivalent).**Applications:**

Suitable for Immunomicroscopy and Flow Cytometry or FACS analysis as well as other antibody based fluorescent assays requiring extremely low background levels, absence of F(c) mediated binding, lot-to-lot consistency, high titer and specificity. The maximum amount of reagent required to stain  $1 \times 10^6$  cells in Flow Cytometry is approximately 1.0 µg of antibody conjugate. Lesser amounts of reagent may be sufficient for staining. As a general guideline dilutions of 1/100 to 1/250 should be suitable for most applications.

***Recommended Dilutions:***

Immunofluorescence: 1/100-1/250.

Flow Cytometry: 1/100-1/250.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Phycoerythrin, anti-Goat Serum, Mouse IgG, Mouse IgG F(c) and Mouse Serum. No reaction was observed against anti-Pepsin, anti-Goat IgG F(c), Mouse IgG F(ab')<sub>2</sub> or Bovine, Horse or Human Serum Proteins.

**Species:** Mouse. Minimum Cross reactivity to Bovine, Horse and Human Serum Proteins.

Other species not tested.

**Storage:**

This antibody is stable at 2-8°C as an undiluted liquid.

**DO NOT FREEZE!**

Restore with 1.0 ml of deionized water (or equivalent).

Store reagent in the dark. Use subdued lighting during handling and incubation of cells prior to analysis.

Dilute only prior to immediate use.

Avoid repeated freezing and thawing.

Shelf life: One year from despatch.

**General Readings:**

1. Carlsson J, Drevin H, Axén R. Protein thiolation and reversible protein-protein conjugation. N-Succinimidyl 3-(2-pyridyldithio)propionate, a new heterobifunctional reagent. *Biochem J.* 1978 Sep 1;173(3):723-37. PubMed PMID: 708370.