

### Certificate of Analysis

**Product:** Biotin Conjugated IgG fraction of Anti-alpha-2-MACROGLOBULIN (Human Plasma) [GOAT]

**Code:** 200-106-207

**Lot #** 13899

**Size:** 10.0 mg

**Physical State:** Lyophilized

**Antibody Concentration:** 10.0 mg/ml (by UV absorbance at 280 nm)

**Label:** Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC)

**Biotin/Protein Ratio:** 10-20 BAC molecules per Goat IgG molecule

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Stabilizer:** 10 mg/ml Bovine Serum Albumin (BSA), IgG and Protease free

**Preservative:** 0.01% (w/v) Sodium Azide

**Application(s):** Suitable for immunoblotting, ELISA, immunohistochemistry, immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates requiring lot-to-lot consistency.

**Recommended Dilution(s):** This product has been assayed against 1.0 ug of alpha-2-MACROGLOBULIN in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:20,000 is suggested for this product. Optimal titers for other applications should be determined by the researcher.

**Storage Conditions:** Store vial at 4° C prior to restoration. Restore with 1.0 ml of deionized water (or equivalent). For extended storage mix with glycerol to 50% and then 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 date is one (1) year from date of restoration.

**Purity and Specificity:** This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin and anti-Goat Serum as well as purified and partially purified alpha-2-MACROGLOBULIN [Human Plasma]. Cross reactivity against alpha-2-MACROGLOBULIN from other sources is unknown.

**Immunogen:** alpha-2-MACROGLOBULIN [Human Plasma]

**Conjugation Reference:** Bayer & Wilchek *Methods in Enzymology* **184**; 138-160, 1990.

**USDA Certification:** All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation.

**Note:** This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.