

## Donkey IgG anti-Goat IgG (H+L)-RPE, MinX Hm,Rb,Rt,Ck,Ho,Ms

### General Information

<b>Catalog Number:</b> SEC-182891	<b>Physical State:</b> Lyophilized
<b>Quantity:</b> 1 ml	<b>Reconstitution Volume:</b> 1.0 mL
	<b>Reconstitution Buffer:</b>
	<b>Shipping Conditions:</b> Wet Ice
	<b>Product Expiration:</b> Expiration date is six (6) months from date of opening.

### Antibody Host / Format

<b>Host Species:</b> Donkey	<b>Clonality / Isotype / Clone:</b> polyclonal Ig
<b>Antibody Format:</b> IgG whole molecule	<b>Concentration:</b> 0.5 mg/mL by absorbance = 82.0 at 565 nm
	<b>Conjugation:</b> RPE (R-phycoerythrin)
	<b>Maximum Excitation / Emission:</b> 490 nm; 545 nm; 566 nm / 580 nm

### Specificity

<b>Target Species:</b> Goat	<b>Immunogen:</b> Goat IgG whole molecule
<b>Antibody Specificity:</b> IgG (H+L)	Anti-Goat IgG was prepared from monospecific antiserum by immunoaffinity chromatography using Goat IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Phycoerythrin, anti-Donkey Serum, Goat IgG and Goat Serum. No reaction was observed against Chicken, Guinea Pig, Hamster, Horse, Mouse, Rabbit and Rat Serum Proteins.
	<b>Minimal Cross Reactivity:</b> Hamster generally, Rabbit, Rat, Chicken, Horse, Mouse

### Formulation, Transport and Storage

<b>Storage Buffer:</b> 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2	Store vial at 4° C prior to restoration. Restore with deionized water (or equivalent). This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Centrifuge product if not completely clear after standing at room temperature. Do not freeze after reconstitution. Store reagent in the dark. Use subdued lighting during handling and incubation of cells prior to analysis.
<b>Stabilizer:</b> 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free	
<b>Preservatives:</b> 0.01% (w/v) Sodium Azide	
	<b>Storage Temperature:</b> 4-8°C

This product is for In Vitro experimental use only. Not for Therapeutic or Diagnostic use.

#### Manufacturer

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## Application Recommendation

**Application:** Flow Cytometry, Immunofluorescence

**Dilution:** Flow cytometry 1:100 - 1:250, Immunofluorescence 1:100 - 1:250

### Application Note:

Anti-Goat IgG (H&L) antibody is 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  $\mu\text{g}$  of antibody conjugate. Lesser amounts of reagent may be sufficient for staining. Optimal titers for other applications should be determined by the researcher. As a general guideline dilutions of 1:100 to 1:250 should be suitable for most applications. Specific conditions for reactivity should be optimized by the end user.

## Background Information

Goat IgG antibody recognizes IgG heavy and light chains. Anti-Goat IgG Phycoerythrin Antibody generated in donkey detects goat IgG. 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. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present. Anti-Goat IgG (H&L) antibody is ideal for investigators involved in serum component protein research.

## Safety Information

This reagent contains sodium azide (a poisonous and hazardous substance) as preservative. Although this concentration is not regarded as dangerous to health, appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. Standard Laboratory Practices should be followed when handling this material.

## Disclaimer

This product is warranted to perform in conformance with product specifications and to be free from defects in material and workmanship. Products are supplied for research use only. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated, this warranty is limited to one year from date of shipment when the product is subjected to normal, proper and intended usage. Buyer's exclusive remedy for non-conforming products during the warranty period is limited to replacement of or refund for the non-conforming product(s). There is no obligation to replace products as the result of accident or disaster or inappropriate use of the products in a manner for which they were not designed, or improper storage and handling of the products.

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