



**GOAT ANTI-MOUSE IgG  $\gamma$  CHAIN SPECIFIC  
HRP CONJUGATED, SPECIES ADSORBED (HUMAN)  
POLYCLONAL ANTIBODY**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |        |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|
| <b>CATALOG NUMBER:</b>     | AP503P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>QUANTITY:</b>     | 1.0 mL |
| <b>LOT NUMBER:</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |        |
| <b>EPITOPE:</b>            | IgG $\gamma$ chain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>HOST/ISOTYPE:</b> | Goat   |
| <b>BACKGROUND:</b>         | IgG is one of the most abundant protein in human serum. IgG is important for our defence against microorganisms and the molecules are produced by B-lymphocytes as a part of our adaptive immune response. The IgG molecule has two separate functions; to bind to the pathogen that elicited the response and to recruit other cells and molecules to destroy the antigen. The variability of the IgG pool is generated by somatic recombination and the number of specificities in an individual at a given time point is estimated to be $10^{11}$ variants. |                      |        |
| <b>SPECIFICITY:</b>        | The antibody reacts with the heavy chain of mouse IgG1, IgG2a, IgG2b and IgG3 as demonstrated by ELISA and flow cytometry. Minimal cross reactivity with human immunoglobulins.                                                                                                                                                                                                                                                                                                                                                                                 |                      |        |
| <b>APPLICATIONS:</b>       | <u>ELISA</u> : 1:4,000-1:8,000<br><br><i>Optimal working dilutions must be determined by the end user.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |        |
| <b>SPECIES REACTIVITY:</b> | Reacts with heavy chain of mouse IgG1, IgG2a, IgG2b and IgG3. Absorbed for mouse IgM and IgA, pooled human sera and purified human paraproteins. Minimal cross reactivity with human immunoglobulins. Reactivity with other species has not been determined.                                                                                                                                                                                                                                                                                                    |                      |        |
| <b>IMMUNOGEN:</b>          | Prepared from purified mouse IgG $\gamma$ chain. Pooled antisera from goats hyperimmunized with mouse IgG paraproteins.                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |        |
| <b>PRESENTATION:</b>       | Purified by affinity chromatography on pooled mouse IgG covalently linked to agarose. Liquid in 50% glycerol/50% PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |        |
| <b>STORAGE/HANDLING:</b>   | Maintain refrigerated at 2°-8°C under sterile conditions for up to twelve months from date of receipt. For long term storage, aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                    |                      |        |

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

**FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC  
PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

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