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Datasheet for 005-0502

# Goat IgG Alkaline Phosphatase

## Overview

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|---|---|
| **Description:** | Goat IgG Whole Molecule Alkaline Phosphatase Conjugated - 005-0502 |
| **Item No.:** | 005-0502 |
| **Size:** | 1 mg |
| **Applications:** | Dot Blot |
| **Origin:** | Goat |

## Product Details

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| **Background:** | 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 compliment 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. |
| **Synonyms:** | Goat IgG alkaline phosphatase conjugated, Goat IgG alk phos conjugated |
| **Species of Origin:** | Goat |
| **Conjugate:** | Alkaline Phosphatase (AP) |
| **Format:** | IgG |
| **Type:** | Native Protein |

## Target Details

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| **Purity/Specificity:** | This product was prepared from normal serum by delipidation, salt fractionation, ion exchange chromatography followed by conjugation and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat IgG, anti-Goat Serum and anti-Alkaline Phosphatase (calf intestine). |

## Application Details

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| **Tested Applications:** | Dot Blot |
| **Application Note:** | Goat IgG whole molecule alkaline phosphatase conjugate has been tested in Dot Blot and can be utilized as a control or standard reagent in Western Blotting and ELISA experiments. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:2,000 - 1:10,000 |
| **IHC:** | 1:200 - 1:1,000 |
| **WB:** | 1:500 - 1:2,500 |

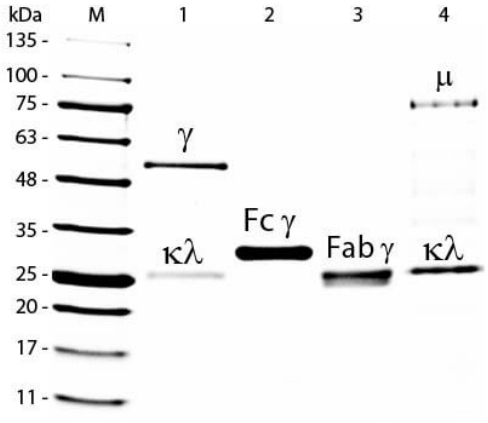
## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.0 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol; pH 8.0 |
| **Preservative:** | 0.1% (w/v) Sodium Azide |
| **Stabilizer:** | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |

## Shipping & Handling

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| **Shipping Condition:** | Wet Ice |
| **Storage Condition:** | Store vial at 4° C before opening. DO NOT FREEZE. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images




**SDS-PAGE**

SDS-PAGE of Goat IgG Whole Molecule Rhodamine Conjugated (p/n 005-0002). Lane M: 5 µL Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Goat IgG Whole Molecule Rhodamine Conjugated (p/n 005-0002). Lane 2: Reduced Goat IgG F(c) Fragment (p/n 005-0103). Lane 3: Reduced Goat IgG F(ab) Fragment (p/n 005-0105). Lane 4: Reduced Goat IgM Whole Molecule (p/n 005-0107). Load: 1 µg for IgG, F(c) and F(ab); 3 µg for IgM. Predicted/Observed size: IgG at 50 and 25 kDa; F(c) at 25 kDa; F(ab) at 25 kDa; IgM at 70 and 23 kDa. Observed F(c) Fragment migrates slightly higher.

## Disclaimer

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