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Datasheet for 610-1502

# Mouse IgG (H&L) Secondary Antibody Alkaline Phosphatase Conjugated

## Overview

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| **Description:** | Goat Anti-Mouse IgG (H&L) Antibody Alkaline Phosphatase Conjugated - 610-1502 |
| **Item No.:** | 610-1502 |
| **Size:** | 1 mg |
| **Applications:** | Dot Blot, ELISA, WB, IF, LFA |
| **Reactivity:** | Mouse |
| **Host Species:** | Goat |

## Product Details

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| **Background:** | Anti-Mouse IgG Alkaline Phosphatase Antibody generated in goat detects reactivity to Mouse 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 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 the Heavy and Light chains of the antibody molecule are present. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition. |
| **Synonyms:** | Goat Anti-Mouse IgG Antibody alkaline phosphatase Conjugation, Goat Anti-Mouse IgG alk phos Conjugated Antibody |
| **Host Species:** | Goat |
| **Specificity:** | IgG (H&L) |
| **Conjugate:** | Alkaline Phosphatase (AP) |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Reactivity:** | Mouse |
| **Immunogen:** | Mouse IgG whole molecule |
| **Purity/Specificity:** | Anti-Mouse Conjugated Secondary Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse 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-Alkaline Phosphatase (calf intestine), anti-Goat Serum, Mouse IgG and Mouse Serum. |

## Application Details

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| **Tested Applications:** | Dot Blot, ELISA, WB |
| **Suggested Applications:** | IF, LFA (Based on references) |
| **Application Note:** | Mouse secondary antibody conjugated to Alkaline Phosphatase is available in a variety of formats. Anti-Mouse IgG Alkaline Phosphatase Antibody has been tested by ELISA, dot blot, and Western blot and is suitable for ELISA, immunohistochemistry, Western blotting as well as other Alkaline Phosphatase antibody based assays. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:15,000 |
| **IHC:** | 1:200 - 1:1,000 |
| **WB:** | 1:1,000 - 1:4,000 |

## 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 secondary antibody conjugate 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


**Western Blot**
Western Blot of Alkaline Phosphatase Conjugated Goat Anti-Mouse IgG Antibody Lane 1: Mouse IgG Load: 100 ng per lane Secondary antibody: Alkaline Phosphatase Conjugated Goat Anti-Mouse IgG Antibody at 1:1000 for 60 min at RT Block: MB-070 for 30 min RT Predicted/Observed size: 55 and 28 kDa, 55 and 28 kDa

## References


- Schenk F et al. Development of a lateral flow assay for the detection of amitriptyline in surface waters *14th Dresden Sensor Symposium 2019* (2019)
- Qin Y et al. Molecular characterization and expression analysis of cDNAs encoding four Rab and two Arf GTPases in the latex of Hevea brasiliensis. *Plant Physiol Biochem.* (2011)
- Reid SP et al. Ebola virus VP24 binds karyopherin α1 and blocks STAT1 nuclear accumulation. *J Virol.* (2006)
- Frischmuth S et al. Yeast two-hybrid systems confirm the membrane- association and oligomerization of BC1 but do not detect an interaction of the movement proteins BC1 and BV1 of Abutilon mosaic geminivirus *Arch Virol.* (2004)


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