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Datasheet for 605-705-002

Goat IgG (H&L) Antibody Alkaline Phosphatase Conjugated

Overview

Description:	Donkey Anti-Goat IgG (H&L) Antibody Alkaline Phosphatase Conjugated - 605-705-002
Item No.:	605-705-002
Size:	1 mg
Applications:	Dot Blot, ELISA, IHC, WB
Reactivity:	Goat
Host Species:	Donkey

Product Details

Background:	Anti-Goat IgG Alkaline Phosphatase 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 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:	donkey anti-Goat IgG Antibody Alkaline Phosphatase Conjugation, donkey anti-Goat IgG Alk Phos Conjugated Antibody
Host Species:	Donkey
Specificity:	IgG (H&L)
Conjugate:	Alkaline Phosphatase (AP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Goat
Immunogen Type:	Native Protein

Immunogen:	Anti-Goat IgG (H&L) was produced by repeated immunization with goat IgG whole molecule in donkey.
Purity/Specificity:	This product 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-Alkaline Phosphatase (calf intestine), anti-Donkey Serum, Goat IgG and Goat Serum.

Application Details

Tested Applications:	Dot Blot, ELISA
Suggested Applications:	IHC, WB (Based on references)
Application Note:	Anti-Goat IgG (H&L) Alkaline Phosphatase Antibody has been tested by ELISA and dot blot and is suitable for immunoblotting (western or dot blot), ELISA, immunoelectron microscopy and immunohistochemistry as well as other antibody-based enzymatic assays requiring lot-to-lot consistency.
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

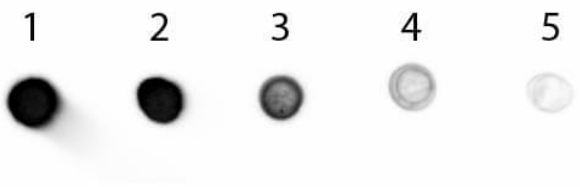
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol; pH 8.0
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Shipping & Handling

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



Dot Blot
Dot Blot of Donkey anti-Goat IgG Antibody Alkaline Phosphatase Conjugated. Antigen: Goat IgG. Load: Lane 1 - 200 ng Lane 2 - 66.7 ng Lane 3 - 22.2 ng Lane 4 - 7.41 ng Lane 5 - 2.47 ng. Primary antibody: n/a. Secondary antibody: Donkey anti-Goat IgG Antibody Alkaline Phosphatase Conjugated at 1:1,000 for 60 min at RT. Block: MB-070 for 1 HR at RT.

References

- Tsuchiya E et al. Histochemical assessment on the cellular interplay of vascular endothelial cells and septoclasts during endochondral ossification in mice. *Microscopy (Oxf).* (2021)
- Vallejo J, Hardin CD. Metabolic organization in vascular smooth muscle: distribution and localization of caveolin-1 and phosphofructokinase. *Am J Physiol Cell Physiol.* (2004)

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