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Datasheet for 604-1302

Dog IgG (H&L) Antibody Peroxidase Conjugated

Overview

Description:	Goat Anti-Dog IgG (H&L) Antibody Peroxidase Conjugated - 604-1302
Item No.:	604-1302
Size:	2 mg
Applications:	ELISA
Reactivity:	Dog
Host Species:	Goat

Product Details

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. 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. Anti-Dog IgG (H&L) antibody is ideal for investigators in Immunology, Cancer, and Microbiology research.
Synonyms:	Goat anti-Dog IgG Antibody Peroxidase Conjugation, Goat anti-Dog IgG HRP Conjugated Antibody
Host Species:	Goat
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Dog
Immunogen:	Dog IgG, whole molecule

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Dog IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Dog IgG and Dog Serum.
Relevant Links:	• SDS

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Dog IgG Peroxidase conjugated antibody has been tested by ELISA, This product has been assayed against 1.0 µg of Dog IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:15,000 to 1:75,000 is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000 - 1:150,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:10,000

Formulation

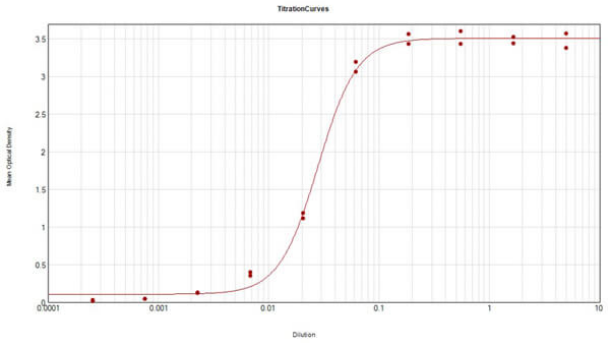
Physical State:	Lyophilized
Concentration:	2.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



ELISA
ELISA Results of Purified Goat Anti-Dog IgG Antibody Peroxidase Conjugated tested against purified Dog IgG. Each well was coated in duplicate with 1.0 µg of Dog IgG (p/n 004-0102). The working dilution is 1:36,000. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using HRP Stabilizer (p/n MB-076) and TMB substrate (p/n TMBE-1000).

References

- Hakim, CH et al. Cas9-specific immune responses compromise local and systemic AAV CRISPR therapy in multiple dystrophic canine models. *Nature Communications* (2021)

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