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Datasheet for 617-403-002

Monkey IgG (H&L) Antibody Peroxidase

Overview

Description:	Rabbit Anti-Monkey IgG (H&L) Antibody Peroxidase Conjugated - 617-403-002
Item No.:	617-403-002
Size:	1 mg
Applications:	ELISA, WB
Reactivity:	Monkey
Host Species:	Rabbit

Product Details

Background:	Anti-Monkey IgG (H&L) HRP antibody generated in rabbit detects specifically monkey IgG heavy and light chains. Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. IgG 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. This peroxidase conjugated anti-Monkey IgG (H&L) secondary antibody is ideal for investigators who routinely perform western-blot, immunoprecipitation and more general immunoassays. 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.
Synonyms:	rabbit Anti-Monkey IgG peroxidase Conjugated Antibody, rabbit Anti-Monkey IgG Antibody peroxidase Conjugation, rabbit Anti-Monkey IgG HRP Conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Monkey
Immunogen Type:	Native Protein
Immunogen:	Anti-Monkey IgG (H&L) was produced by repeated immunization with monkey IgG in rabbit.
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Monkey IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, anti-Peroxidase, Monkey IgG and Monkey Serum.

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Monkey IgG (H&L) HRP conjugated Antibody has been tested in ELISA and western blot and is suitable for use in Western Blotting, Immunohistochemistry, ELISA as well as other antibody detection methods. Specific conditions for reactivity and signal detection should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000 - 1:100,000
IHC:	User Optimized
IP:	User Optimized
WB:	1:10,000 - 1:60,000

Formulation

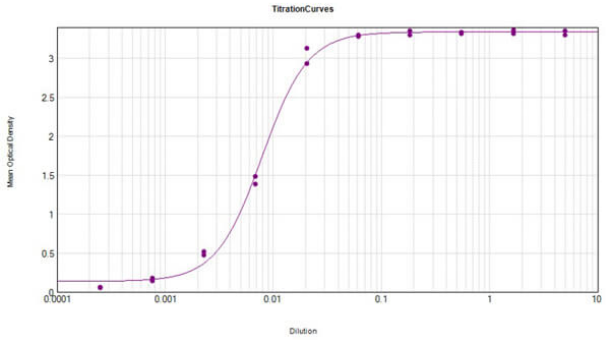
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
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 Rabbit Anti-Monkey IgG Antibody Peroxidase Conjugated tested against purified Monkey IgG HRP. Each well was coated in duplicate with 1.0 µg of Monkey IgG (p/n 017-0102). The working dilution is 1:126,000. 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 Conjugate Stabilizer (p/n MB-076) and TMB substrate (p/n TMBE-1000).

References

- Saunders KO et al. Lipid nanoparticle encapsulated nucleoside-modified mRNA vaccines elicit polyfunctional HIV-1 antibodies comparable to proteins in nonhuman primates. *Nature.* (2020)

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