

Datasheet for 617-141-012

Monkey IgG (gamma chain) Antibody DyLight™488 Conjugated

Overview

Description:	Goat Anti-Monkey IgG (gamma chain) Antibody DyLight™488 Conjugated - 617-141-012
Item No.:	617-141-012
Size:	100 µg
Applications:	Dot Blot
Reactivity:	Monkey
Host Species:	Goat

Product Details

Background: Anti-Monkey IgG (gamma chain) DyLight™488 conjugated antibody generated in goat detects specifically monkey IgG (gamma chain). 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 complement 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. This DyLight™488 conjugated anti-Monkey IgG gamma chain secondary antibody is ideal for investigators who routinely perform ELISA, Sandwich ELISA, titration assays, 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:	goat anti-Monkey IgG (gamma chain) DyLight™488 conjugated antibody, goat anti-Monkey IgG gamma antibody DyLight™ 488 conjugation
Host Species:	Goat
Specificity:	IgG (gamma chain)
Conjugate:	DyLight™ 488
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	5.7

Target Details

Reactivity:	Monkey
Immunogen Type:	Native Protein
Immunogen:	Anti-Monkey IgG (gamma chain) was produced by repeated immunization with monkey IgG gamma heavy chain in goat.
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Monkey 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-Goat Serum, Monkey IgG and Monkey Serum.

Application Details

Tested Applications:	Dot Blot
Application Note:	Anti-Monkey IgG (gamma chain) DyLight™488 has been tested by dot blot and is suitable for use in immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. 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.
FLISA:	>1:20,000
IF:	>1:5,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

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) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL

Reconstitution Buffer: Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.

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

Images

Diagram

This table displays additional reactivity among various species of serum and immunoglobulin. A (+) indicates antibody reactivity to the corresponding target.

<u>Product</u>	<u>Gt-a-Monkey IgG</u>	<u>Gt-a-Monkey IgA</u>	<u>Gt-a-Monkey IgM</u>
Rhesus Serum	+	+	+
Baboon Serum	+	+	+
Cynomolgus Serum	+	+	+
Rhesus IgG	+		
Human IgA		+	
Human IgM			+

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.