

Datasheet for 610-409-C46

Mouse IgG (gamma 1, 2a, 2b and 3 chain) Antibody Texas Red™ Conjugated

Overview

Description:	Rabbit Anti-Mouse IgG (gamma 1, 2a, 2b and 3 chain) Antibody Texas Red™ Conjugated - 610-409-C46
Item No.:	610-409-C46
Size:	1 mg
Applications:	WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Mouse IgG Texas Red Antibody generated in rabbit detects reactivity to Mouse IgG1, IgG2a, IgG2b and IgG3. 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 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. IgG1, IgG2a, IgG2b and IgG3 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:	rabbit anti-Mouse IgG (gamma 1, 2a, 2b and 3 chain) Antibody Texas Red™ conjugation, rabbit anti-Mouse IgG Texas Red™ conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG (gamma 1, 2a, 2b and 3 chain)
Conjugate:	Texas Red®
Clonality:	Polyclonal
Format:	IgG

F/P Ratio: 1.8

Target Details

Reactivity:	Mouse
Immunogen Type:	Native Protein
Immunogen:	highly purified mouse IgG gamma 1, gamma 2a, gamma 2b and gamma 3 proteins
Purity/Specificity:	Anti-Mouse IgG subclass pan reactive Secondary Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using antigens coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. This product shows balanced reactivity to Mouse IgG1, IgG2a, IgG2b and IgG3 proteins and is suitable to screen IgG class hybridoma clones. Minimal cross reactivity is observed against other Mouse immunoglobulin classes or light chain proteins.

Application Details

Tested Applications:	WB
Application Note:	Anti-Mouse IgG subclass pan reactive Texas Red Antibody has been tested by western blot and is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. Anti-mouse IgG antibody Texas Red [™] is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	1:1,000 - 1:5,000
FLISA:	1:20,000 - 1:100,000
IF:	1:1,000 - 1:5,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

Formulation

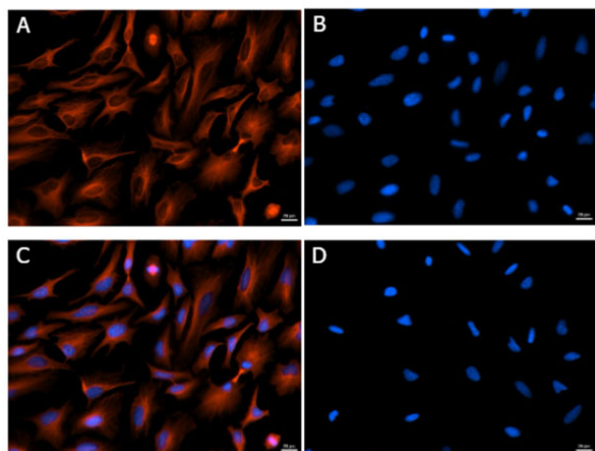
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

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



Immunofluorescence Microscopy

Immunofluorescence of Rabbit Anti-Mouse IgG (gamma 1, 2a, 2b and 3 chain) Antibody Texas Red™ Conjugated.

Cell line: HeLa.

Primary Antibody: Alpha Tubulin (p/n 200-301-880) at 4 µg/mL (1:250) for 1hr at RT.

Secondary Antibody: Rabbit Anti-Mouse IgG exas Red™ (p/n 610-409-C49) at 1 µg/mL (1:1000) overnight at 4 °C.

Fixative: Ice Cold Methanol.

Permeabilization: Ice Cold Methanol.

Nuclear stain: Hoechst 33342.

Expected Localization: Cytoplasmic.

Image: A) Alpha Tubulin, B) Nuclear Stain, C) Merge, D)

Secondary Only Control.

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.