

Datasheet for 610-711-124**Mouse IgG (H&L) Antibody CY2 Conjugated Pre-Adsorbed****Overview**

Description:	Donkey Anti-Mouse IgG (H&L) Antibody CY2 Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Rb Rt & Sh Serum Proteins) - 610-711-124
Item No.:	610-711-124
Size:	1 mg
Applications:	IF
Reactivity:	Mouse
Host Species:	Donkey

Product Details

Background:	Anti-Mouse IgG Cy2 Antibody generated in donkey detects reactivity to Mouse 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 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. Both the Heavy and Light 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:	Donkey Anti-Mouse IgG (H&L) Antibody CY2 Conjugated Pre-Adsorbed, Donkey Anti Mouse IgG Antibody CY2 Conjugated
Host Species:	Donkey
Specificity:	IgG (H&L)
Conjugate:	Cy2™
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	3.0

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgG whole molecule
Purity/Specificity:	Cy2 Conjugated Secondary Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Donkey Serum, Mouse IgG and Mouse Serum. No reaction was observed against Bovine, Chicken, Goat, Guinea Pig, Hamster, Horse, Human, Rabbit, Rat and Sheep Serum Proteins.

Application Details

Suggested Applications:	IF (Based on references)
Application Note:	Cy2 Conjugated Secondary Antibody is designed for 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
FC:	1:500 - 1:2,500
FLISA:	1:10,000 - 1:50,000
IF:	1:1,000 - 1:5,000
WB:	User Optimized

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)

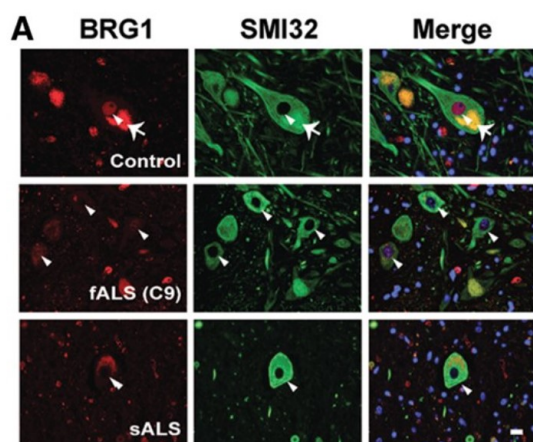
Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store Cy2 Conjugated Secondary Antibody 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

nBAF subunits are depleted from motor neurons in multiple forms of familial and sporadic ALS. Cross-sections of autopsied spinal cord from individuals dying of non-ALS causes (control), familial ALS owing to C9ORF72 G4C2 nucleotide expansion, or sporadic ALS with no known mutation were labelled with antibodies to the nBAF subunits (A) Brg1 (red). Sections were labelled with SMI32 recognizing the high molecular weight neurofilament subunit (NFH) to identify motor neurons (green) using anti-mouse Cy2-IgG (p/n 610-711-124) and DAPI to label nuclei (blue). Arrow heads point to nuclei of motor neurons. Arrows point to accumulations of autofluorescent lipofuscin. Illustrated are representative images from examination of multiple sections of three cases per condition. Mean $\pm$ SD: 100 $\pm$ 0% (n= 3 control cases) and 12 $\pm$ 9% (n = 8 pooled C9ORF72 and sALS cases. Significant difference between control and ALS case groups, p = 0.0001). Scale bar = 16 μ m. Fig 6. PMID: 28973294.

References

- Tibshirani M et al. Dysregulation of chromatin remodelling complexes in amyotrophic lateral sclerosis. *Hum Mol Genet.* (2017)
- Tibshirani et al. Cytoplasmic sequestration of FUS/TLS associated with ALS alters histone marks through loss of nuclear protein arginine methyltransferase 1. *Human Molecular Genetics* (2015)

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.