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Datasheet for 610-746-124

Mouse IgG (H&L) Antibody DyLight™ 405 Conjugated Pre-Adsorbed

Overview

Description:	Donkey Anti-Mouse IgG (H&L) Antibody DyLight™ 405 Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Rb Rt & Sh Serum Proteins) - 610-746-124
Item No.:	610-746-124
Size:	100 µg
Applications:	IF
Reactivity:	Mouse
Host Species:	Donkey

Product Details

Background:	Anti-Mouse IgG DyLight405 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 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 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 DyLight 405™ Conjugated Antibody, Donkey anti Mouse IgG Antibody DyLight 405™ Conjugation
Host Species:	Donkey
Specificity:	IgG (H&L)
Conjugate:	DyLight™ 405
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	2.0

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgG whole molecule
Purity/Specificity:	This product 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. 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. This antibody will react with heavy chains of mouse IgG and with light chains of most mouse immunoglobulins.

Application Details

Suggested Applications:	IF (Based on references)
Application Note:	This product 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. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.
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
WB:	>1:10,000

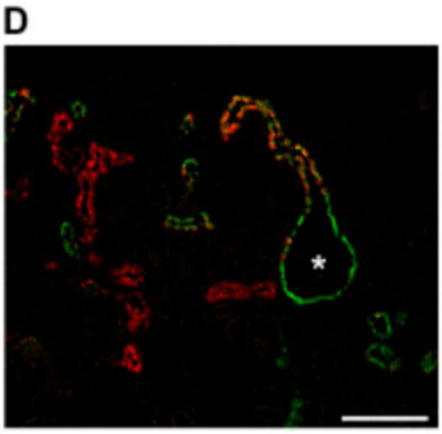
Formulation

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)

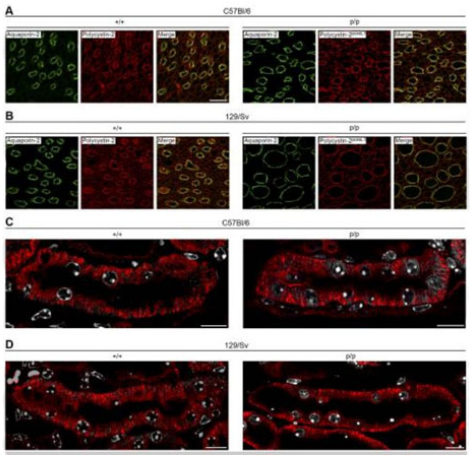
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to 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
Double-immunofluorescence staining for aquaporin-2 (green) and calbindin (a marker of connecting tubules, red) demonstrates the sudden transition from a calbindin-positive connecting tubule to an aquaporin-2-positive collecting duct cyst (asterisk in D). Scale bars: 100 µm. Fig. 7. PMID: 34345895.

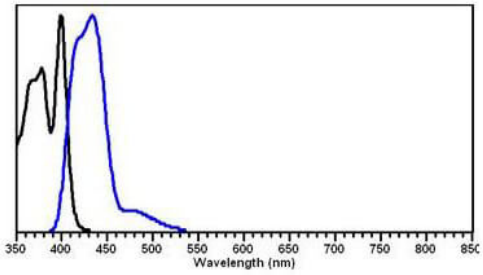


Immunofluorescence Microscopy
Intrarenal distribution of polycystin-2poreL1 in homozygous Pkd2poreL1 knock-in mice. (A,B) Immunofluorescence staining for aquaporin-2 as a marker for collecting ducts on the one hand and for polycystin-2 and polycystin-2poreL1 on the other hand in 6-month-old wild-type (+/+) and homozygous Pkd2poreL1 knock-in (p/p) female mice demonstrates the presence of wild-type polycystin-2 and of polycystin-2poreL1 in papillary collecting ducts in both the C57Bl/6 and 129/Sv genetic backgrounds. Note the larger diameter of collecting ducts in the Pkd2poreL1/poreL1 mice. Scale bar: 50 µm. (C,D) Immunofluorescence staining of kidney sections from 6-month-old wild-type (+/+) and homozygous Pkd2poreL1 knock-in (p/p) mice. Both in the C57Bl/6 and in the 129/Sv background, identical distributions of the wild-type and mutant polycystin-2 proteins (red signal) are seen. Nuclei are shown in white. Images are representative of three experiments. Scale bars: 10 µm. Fig. 5. PMID: 34345895.

Emission	Color	DyLight™ Dye	Ex/Em (nm)	ε (M^{-1} cm^{-1})	Similar Dyes
Blue		**405**	**400/420**	**30,000**	**Alexa™ 405, Cascade Blue**
Green		488	493/518	70,000	Alexa™ 488, Cy2®, FITC
Yellow		549	550/568	150,000	Alexa™ 546, Alexa 555, Cy3®,TRITC
Red		649	646/674	250,000	Alexa™ 647, Cy5®
Near Infrared		680	682/715	140,000	Alexa™ 680, Cy5.5®, IRDye™ 700
Infrared		800	770/794	270,000	IRDye™ 800

Diagram
Properties of DyLight™ Fluorescent Dyes.

Diagram



References

- Grosch M et al. A polycystin-2 protein with modified channel properties leads to an increased diameter of renal tubules and to renal cysts. *J Cell Sci.* (2021)

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