

Datasheet for 611-745-127

Rabbit IgG (H&L) Antibody DyLight™ 800 Conjugated Pre-Adsorbed**Overview**

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| Description: | Donkey Anti-Rabbit IgG (H&L) Antibody DyLight™ 800 Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) - 611-745-127 |
| Item No.: | 611-745-127 |
| Size: | 100 µg |
| Applications: | Dot Blot, WB |
| Reactivity: | Rabbit |
| Host Species: | Donkey |

Product Details

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|----------------------|---|
| Background: | Anti-Rabbit IgG (H&L) DyLight 800 Antibody generated in donkey detects reactivity to Rabbit 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-Rabbit IgG Antibody DyLight 800™ Conjugated, Donkey Anti Rabbit IgG DyLight 800™ Conjugated Antibody |
| Host Species: | Donkey |
| Specificity: | IgG (H&L) |
| Conjugate: | DyLight™ 800 |
| Clonality: | Polyclonal |
| Format: | IgG |
| F/P Ratio: | 2.7 |

Target Details

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| Reactivity: | Rabbit |
| Immunogen: | Rabbit IgG whole molecule |
| Purity/Specificity: | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rabbit 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, Rabbit IgG and Rabbit Serum. No reaction was observed against Bovine, Chicken, Goat, Guinea Pig, Hamster, Horse, Human, Mouse, Rat and Sheep Serum Proteins. This antibody will react with heavy chains of rabbit IgG and with light chains of most rabbit immunoglobulins. |

Application Details

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| Tested Applications: | Dot Blot |
| Suggested Applications: | WB (Based on references) |
| Application Note: | Anti-Rabbit IgG (H&L) DyLight 800 Antibody has been tested by dot blot and 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

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|------------------------|--|
| 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 μ L

Reconstitution Buffer: Restore with deionized water (or equivalent)

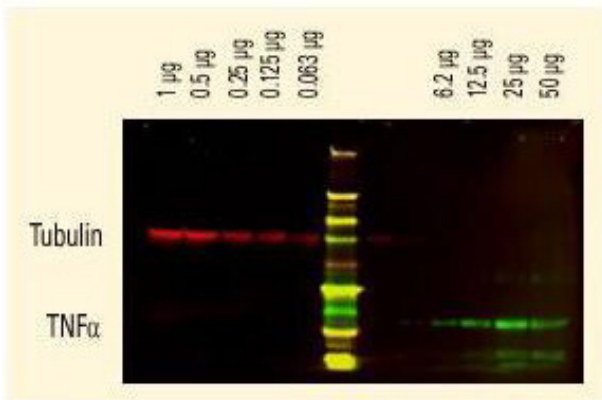
Shipping & Handling

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









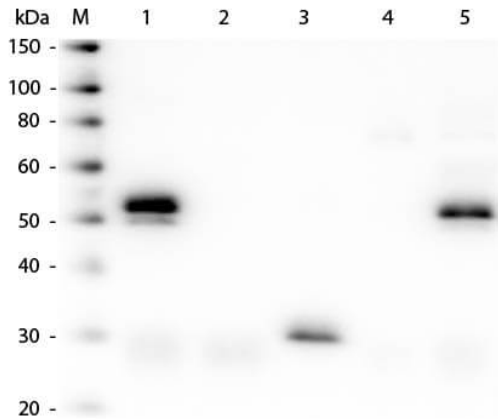
Western Blot

DyLight™ dyes can be used for two-color Western Blot detection with low background and high signal. Anti-tubulin was detected using a DyLight™ 680 conjugate. Anti-TNF α was detected using a DyLight™ 800 conjugate. The image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.

Diagram

Properties of DyLight™ Conjugates.

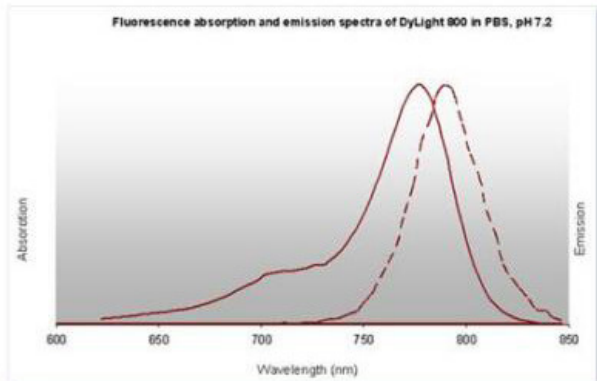
| Emission | Color | DyLight™ Dye | Ex/Em (nm) | ϵ ($M^{-1} cm^{-1}$) | Similar Dyes |
|---------------|---|--------------|------------|---------------------------------|------------------------------------|
| Blue |  | 405 | 400/420 | 30,000 | Alexa™ 405, Cascade Blue |
| Green |  | 488 | 493/518 | 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 |



Western Blot

Western Blot of Anti-Rabbit IgG (H&L) (DONKEY) Antibody (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) (p/n 611-701-127). Lane M: 3 μ l Molecular Ladder. Lane 1: Rabbit IgG whole molecule (p/n 011-0102). Lane 2: Rabbit IgG F(ab) Fragment (p/n 011-0105). Lane 3: Rabbit IgG F(c) Fragment (p/n 010-0103). Lane 4: Rabbit IgM Whole Molecule (p/n 011-0107). Lane 5: Normal Rabbit Serum (p/n B309). All samples were reduced. Load: 50 ng of IgG, F(ab), F(c) and Serum, 25 ng of IgM. Block: MB-070 for 30 min at RT. Primary Antibody: Anti-Rabbit IgG (H&L) (DONKEY) Antibody (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) (p/n 611-701-127) 1:7,500 for 60 min at RT. Secondary antibody: Anti-Donkey IgG (GOAT) Peroxidase Conjugated Antibody (p/n 616-1302) 1:40,000 in MB-070 for 30 min at RT. Predicted/Observed Size: 25 and 50 kDa for Rabbit IgG and Serum, 25 kDa for F(c) and F(ab), 70 and 23 kDa for IgM. Rabbit F(c) migrates slightly higher.

Diagram



References

- Joshi, H et al. L-plastin enhances NLRP3 inflammasome assembly and bleomycin-induced lung fibrosis. *Cell Reports* (2022)
- Navarro R et al. TGF- β -induced IGFBP-3 is a key paracrine factor from activated pericytes that promotes colorectal cancer cell migration and invasion. *Mol Oncol.* (2020)
- Gopalan et al. Schizosaccharomyces pombe Pol II transcription elongation factor ELL functions as part of a rudimentary super elongation complex. *Nucleic Acids Research* (2018)
- Ay et al. Molecular mechanisms underlying protective effects of quercetin against mitochondrial dysfunction and progressive dopaminergic neurodegeneration in cell culture and MitoPark transgenic mouse models of Parkinson's Disease. *Journal of Neurochemistry* (2017)

Disclaimer

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