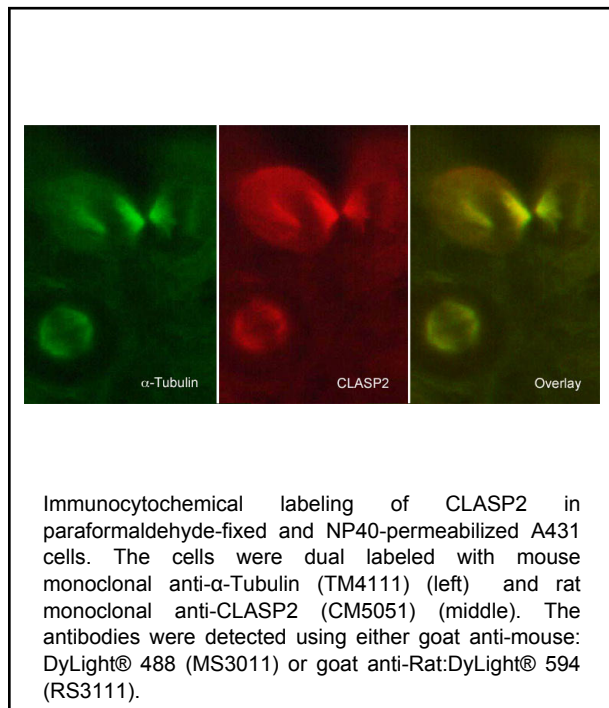


Background

DyLight® fluorophores have absorption maxima covering the entire visible light spectrum (350 nm to 777 nm), as well several key near-infrared and infrared wavelengths. Both the absorption and emission properties of the DyLight® fluorophores match the excitation and detection wavelengths of common fluorescence instrumentation used for immunocytochemistry, immunohistochemistry, and flow cytometry. The DyLight® fluorophores exhibit higher fluorescence intensity and photostability than Alexa Fluor, CyDye and LI-COR Dyes in many applications and remain highly fluorescent over a broad pH range (pH 4-9). Additionally, the water solubility of the DyLight® fluorophores allows a high dye-to-protein ratio to be achieved without causing precipitation of conjugates. These favorable properties and high anisotropy value, as well as a high cross-section for two-photon excitation, make these fluorophores attractive as fluorescent probes in a variety of fluorescence methods.

Background References

Sarkar P. et al. (2010) J Photochem Photobiol B. 98(1):35.
Alkhatatbeh MJ (2011) J Thromb Haemost. 9(4):844.



Applications

| | |
|-----|-------|
| ICC | 1:200 |
| IHC | 1:200 |

End user should determine optimal dilution for their particular applications and experiments.

Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

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Species Reactivity

Rt

Specificity

This antibody has been pre-adsorbed with various immunoglobulins from non-rat species before affinity-purification using rat IgG light chain coupled to agarose beads. Purified goat polyclonal antibody was conjugated to DyLight® 594 fluorophore (Excitation = 593 nm; Emission = 618 nm). This secondary reagent can be used to detect rat immunoglobulin light chains in various immunofluorescence applications, such as immunocytochemistry, immunohistochemistry, and flow cytometry.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Immunogen

The DyLight® 594-conjugated goat polyclonal secondary reagent reacts with the light chains of rat IgG, and the light chains of other rat immunoglobulins. The secondary reagent has minimal cross-reactivity with bovine, goat, horse, human, mouse, rabbit, and sheep immunoglobulins.

Buffer and Storage

Goat polyclonal antibody is supplied in phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA and 0.05% sodium azide. Store at -20° C. Stable for 1 year.

Related Products

| | |
|--------|---|
| MS3011 | Anti-Mouse Ig:DyLight® 488 Goat Polyclonal |
| MS3031 | Anti-Mouse Ig:DyLight® 594 Goat Polyclonal |
| RS3261 | Anti-Rabbit Ig:DyLight® 488 Goat Polyclonal |
| RS3271 | Anti-Rabbit Ig:DyLight® 594 Goat Polyclonal |
| RS3101 | Anti-Rat IgG:HRP Donkey Polyclonal |

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