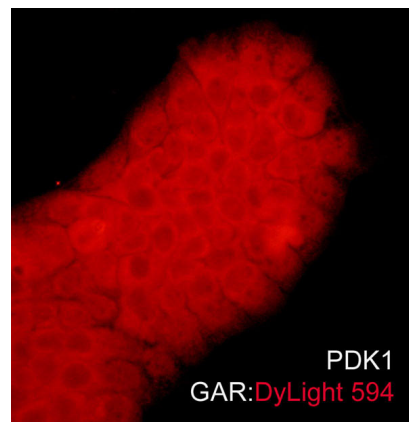


**Background**

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.



Immunocytochemical labeling of PDK1 in A431 cells. The fixed cells were labeled with rabbit polyclonal anti-PDK1 (PP1411) and the antibody was detected using Goat anti-Rabbit secondary antibody conjugated to DyLight® 594.

**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**

Rb

**Specificity**

This antibody has been pre-adsorbed with various immunoglobulins from non-rabbit species before affinity-purification using rabbit IgG 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 rabbit immunoglobulins 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 heavy chains of rabbit IgG, and the light chains of most rabbit immunoglobulins. The secondary reagent has minimal cross-reactivity with goat, horse, human, mouse, rat, and swine 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**

PF7501 Phalloidin:FITC Reagent  
PF7551 Phalloidin:TRITC Reagent  
MS3011 Anti-Mouse Ig:DyLight® 488 Goat Polyclonal  
MS3031 Anti-Mouse Ig:DyLight® 594 Goat Polyclonal  
RS3261 Anti-Rabbit Ig:DyLight® 488 Goat Polyclonal

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