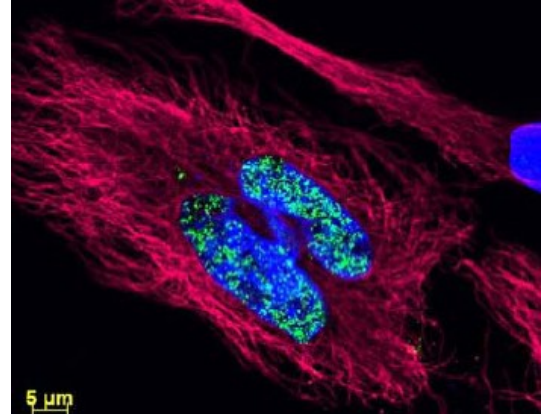


Streptococcus Protein G (DyLight488 conjugated) - DyLight488

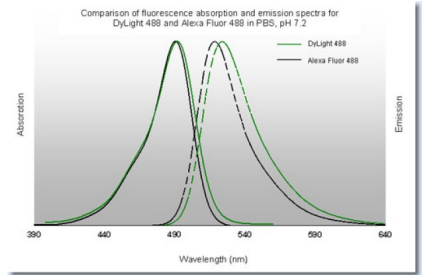
Catalog No.:	RA101DL5
Quantity:	0.1 mg
Concentration:	1.0 mg/ml (by UV absorbance at 280 nm)
Species:	Streptococcus
Format:	State: Lyophilized Purity: >95% Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml Bovine Serum Albumin (BSA) and 0.01% (w/v) Sodium Azide Label: DyLight(TM) 488 (MW 1,011.20) Protein Ratio: 3,1 moles DyLight(TM) 488 per mole of Protein G Absorption/Emission: 493 nm / 518 nm Reconstitution: Restore with 0.1 ml of deionized water (or equivalent).
Applications:	Western Blot: >1/20,000. ELISA: >1/10,000. Immunofluorescence: >1/5,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	Single precipitin arc against anti-biotin and anti-Protein G.
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the protein undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:







DyLight(TM) dyes can be used for multi-color immunofluorescence microscopy with uniform fluorescence intensity throughout the image. DyLight(TM) dyes are exceptionally bright and photostable and are optimized for microscopy and microarray detection methods. This image shows anti-histone detection using a DyLight(TM)488 conjugate (green). Anti-Tubulin was detected using a DyLight(TM)549 conjugate (red). Nuclei were counter-stained using DAPI (blue). The image was captured using an Axio Imager.Z1 (Zeiss Micro Imaging Inc).



DyLight™ 488 Fluorescence Spectra:



Properties of DyLight™ Fluorescent Dyes:

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™ 548, Alexa 555, Cy3™, TRITC
Red		649	645/674	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