



## Anti-GST (MOUSE) Monoclonal Antibody DyLight™ 488 Conjugated - 200-341-200

**Code:** 200-341-200

**Size:** 100 µg

**Product Description:** Anti-GST (MOUSE) Monoclonal Antibody DyLight™ 488 Conjugated - 200-341-200

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Lyophilized

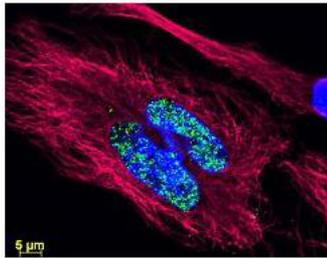
<b>Label</b>	DyLight™ 488
<b>Host</b>	Mouse
<b>Emission Wavelength</b>	518
<b>Excitation Wavelength</b>	493
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Reconstitution Volume</b>	100 µL
<b>Reconstitution Buffer</b>	Restore with deionized water (or equivalent)
<b>Stabilizer</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Preservative</b>	0.01% (w/v) Sodium Azide
<b>Storage Condition</b>	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.
<b>Synonyms</b>	mouse anti-GST antibody DyLight™ 488 conjugation, DyLight™488 conjugated mouse anti-GST antibody, Glutathione-S-Transferase, Anti-GST monoclonal antibody
<b>Application Note</b>	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.
<b>Background</b>	Rockland produces a wide range of GST antibodies in our laboratories. Select GST antibodies from several monoclonal and/or polyclonal GST antibodies listed below. Select appropriate GST antibodies for your research by isotype, epitope, applications and species reactivity. GST (Glutathione-S-Transferase) is a protein expression tag commonly used in molecular biology. Anti-GST will react with synthetic construct present in most known GST containing cloning or expression vectors. GST is responsible for the conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. The amino acid sequence GST is highly conserved in most organisms including mammals. GST exists as a 26 kDa homodimer.
<b>Purity And Specificity</b>	This product was prepared from tissue culture supernatant by Protein A affinity chromatography. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum and purified and partially purified Glutathione-S-Transferase (GST).
<b>Assay Dilutions</b>	User Optimized
<b>Western Blot</b>	1:10,000 - 1:25,000
<b>FLISA</b>	>1:20,000
<b>IF Microscopy</b>	1:500 - 1:2,500
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	BALB/c mice were immunized with GST from full length Schistosoma japonicum protein. A hybridoma was produced by the fusion of BALB/c mouse splenocytes and myeloma cells using conventional hybridoma technology.
<b>Related Products</b>	
200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302

611-1302 Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

B304 NORMAL GOAT SERUM (NGS) - B304

## Images

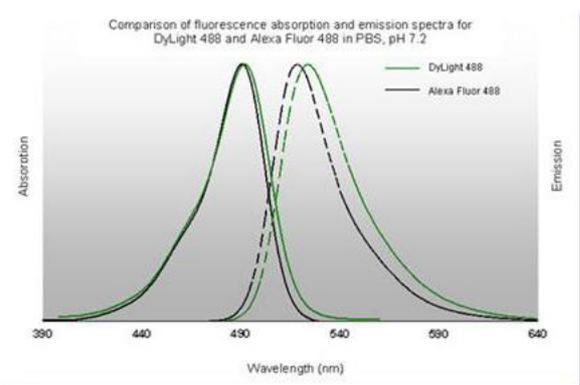
- 1 Immunofluorescence Microscopy of Anti-Tubulin antibody. Tissue: human breast carcinoma. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: tubulin antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Anti-Histone detection using a DyLight™ 488 conjugate (green); Anti-Tubulin detection using a DyLight™ 549 conjugate (red) secondary antibody at 1:10,000 for 45 min at RT. Staining: Nuclei were counter-stained using DAPI (blue).



- 2 Western Blot of Mouse-anti-GST antibody. Lane 1: molecular weight. Lane 2: Mouse-anti-GST monoclonal antibody (blue), Rabbit anti-Transferrin, and Goat-anti-Alpha-1-Anti-Trypsin were used in a multiplex system to detect target proteins under reducing conditions in albumin depleted human serum with 320 ng of added GST. Load: 1 µg per lane. Primary antibody: Each primary antibody at 1:1000 for overnight at 4°C. Secondary antibody: DyLight549 Donkey anti-Rabbit IgG (green) DyLight 488 Donkey anti-Mouse IgG (blue), and DyLight 649 Donkey anti-Goat IgG (red) secondary antibody at 1:10,000 for 30 min at RT. Block: 2.5% Blotto, 2.5% BSA, 0.02% Tween over night at 4°C.



- 3 The emission spectra for this DyLight™488 conjugate match the principle output wavelengths of most common fluorescence instrumentation.



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Properties of DyLight™ Fluorescent Dyes.

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

## Disclaimer

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