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## Certificate of Analysis

Product:	Goat anti-Rat IgG (H&L), DyLight <sup>®</sup> 488 Conjugate
Part Number:	GtxRt-003-E488NHSX
Lot Number:	70-50-071919
Amount:	1.0 mg of lyophilized antibody (E <sup>1%</sup> at 280 nm = 13.0)
Fluorophore:	DyLight <sup>®</sup> 488 (Ex = 493 nm; Em = 518 nm)
Fluor/Protein Ratio:	7.7 Moles DyLight <sup>®</sup> 488 per Mole Antibody
Purification:	Antibody was affinity purified using solid phase Rat IgG
Purity:	Affinity purified antibody is ≥ 95 % based on SDS-PAGE
Host:	Goat
Immunogen:	Purified Rat IgG, whole molecule
Buffer:	10 mM Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 1 % (w/v) BSA, Protease/IgG free
Preservative:	0.05 % (w/v) Sodium Azide
Reconstitution:	Rehydrate with 1.1 ml of deionized water. Allow reconstituted product to stand for at least 30 minutes at room temperature prior to dilution. If necessary, centrifuge to remove any particulates. Prepare fresh working dilution daily.
Storage:	Store freeze dried powder at 2 - 8 °C.
Shelf Life:	Product is stable for up to 4 weeks at 2 - 8 °C after rehydration. For extended storage after rehydration, add an equal volume of glycerol and store at -20 °C.
Specificity:	Based on IEP, this antibody reacts with: <ul style="list-style-type: none"><li>• heavy (γ) chains on Rat IgG</li><li>• light chains on all Rat immunoglobulins</li></ul>
Cross Reactivity:	Based on IEP, no reactivity is observed to: <ul style="list-style-type: none"><li>• non-immunoglobulin Rat serum proteins</li><li>• IgG from Human or Mouse</li></ul>
Country of Origin:	Goat serum was obtained from healthy animals of US origin and under the care of a registered veterinarian.
Note:	This conjugate was prepared using Part # GtxRt-003-E, Lot # 58-117-040418.
Applications:	This conjugate is suitable for use in: FLISA, WB, IF, IM, FACS. The optimal working dilution should be determined by the investigator. Suggested starting dilution(s): <ul style="list-style-type: none"><li>• 1:20 – 1:2,000 for most applications</li></ul>
Disclaimer:	<i>For in vitro Laboratory Use Only.</i> Not for diagnostic or therapeutic use. Not for human or animal consumption. The proper selection and use of our products is the sole responsibility of the end user, and therefore we can offer no guarantee to a specific experimental outcome. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license under any patent of ImmunoReagents, Inc.

**Product may not be resold or modified for resale without prior written approval of ImmunoReagents, Inc.**

## Testing Results

**PRODUCT:** Goat anti-Rat IgG (H&L), DyLight® 488 Conjugate  
**PART NUMBER:** GtxRt-003-E488NHSX  
**LOT NUMBER:** 70-50-071919

<u>TESTS</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance:	Yellowish powder	PASS
Purity:	Two predominant bands at 50 and 24 kDa based on SDS-PAGE	PASS
Specificity:	Based on IEP, this antibody has precipitin bands with: <ul style="list-style-type: none"> <li>• heavy (<math>\gamma</math>) chains on Rat IgG</li> <li>• light chains on all Rat immunoglobulins</li> </ul>	PASS PASS
Cross Reactivity:	Based on IEP, no precipitin bands are observed to: <ul style="list-style-type: none"> <li>• non-immunoglobulin Rat serum proteins</li> <li>• IgG from Human or Mouse</li> </ul>	PASS
FLISA:	Mean fluorescent value of 8 $\mu$ g/ml of DyLight® conjugate when tested against Rat IgG coated at 4 $\mu$ g/ml	1891 MFI's
F.I.T.:	Mean fluorescent intensity of a 1:1000 dilution at Ex-493 nm (+/-9)/Em-518 nm (+/-9)	9428 MFI's

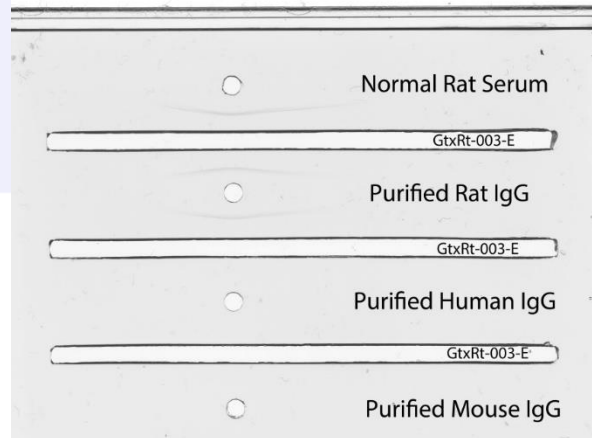
### SDS-PAGE



- 1) GtxRt-003-E, Lot # 58-117-040418
- 2) Mol Weight Standard

### Immunoelectrophoresis (IEP)

IEP For Goat anti-Rat IgG (H+L), Affinity Pure  
 Part # GtxRt-003-E Lot # 58-117-040418



Date: July 29, 2019

Signature:   
 Quality Control

