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## Certificate of Analysis

Product:	Goat anti-Human IgM ( $\mu$ chain), F(ab)' <sub>2</sub> Fragment, Biotin Conjugate
Part Number:	GtxHu-006-GBIO
Lot Number:	80-89-050321
Amount:	0.5 mg of antibody at 1.50 mg/ml ( $E^{1\%}$ at 280 nm = 13.0)
Label:	NHS-LC-Biotin
Purification:	Affinity purified using solid phase Human IgM. F(ab)' <sub>2</sub> fragment was prepared by pepsin digestion.
Purity:	Affinity purified antibody is $\geq 90\%$ based on SDS-PAGE. Small amounts of intact IgG may be present.
Host:	Goat
Immunogen:	Purified Human IgM, $\mu$ chain
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
Storage:	Store undiluted liquid at 2-8 °C. Prepare working dilution prior to use and then discard.
Shelf Life:	1 year from date of receipt
Specificity:	Based on IEP, this antibody reacts with: <ul style="list-style-type: none"><li>• heavy (<math>\mu</math>) chains on Human IgM</li></ul>
Cross Reactivity:	Based on IEP, no reactivity is observed to: <ul style="list-style-type: none"><li>• light chains on all Human immunoglobulins</li><li>• non-immunoglobulin Human serum proteins</li></ul>
Country of Origin:	Goat serum was obtained from animals of US origin and under the care of a registered veterinarian.
Note:	This conjugate was prepared using Part # GtxHu-006-G, Lot # 90-9-110621.
Applications:	This conjugate is suitable for use in: ELISA, WB, IHC, FACS. The optimal working dilution should be determined by the investigator. Suggested starting dilution(s): <ul style="list-style-type: none"><li>• 1:20,000 – 1:500,000 for ELISA/Western blot</li><li>• 1:500 – 1:5,000 for Immunohistochemistry</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.

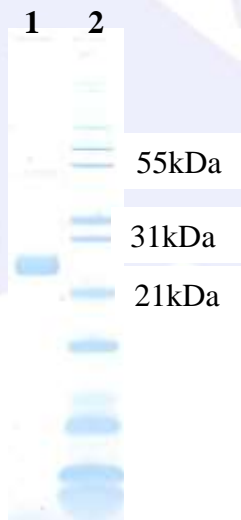
**Product may not be resold or modified for resale without prior written approval of ImmunoReagents, Inc.**

## Testing Results

**PRODUCT:** Goat anti-Human IgM ( $\mu$  chain), F(ab)'2 Fragment, Biotin Conjugate  
**PART NUMBER:** GtxHu-006-GBIO  
**LOT NUMBER:** 80-88-050321

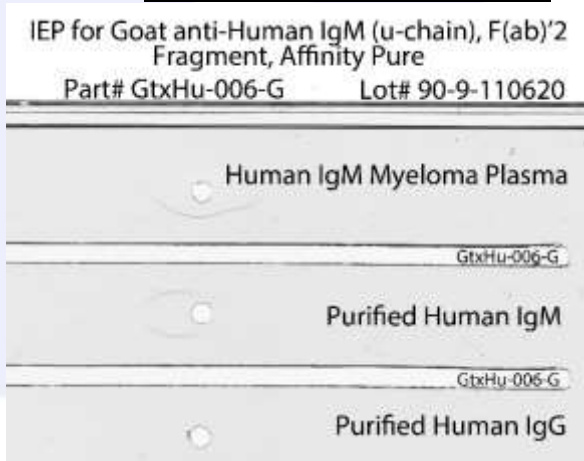
<u>TESTS</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance:	Clear, colorless liquid	PASS
Purity:	One predominant band at 24 kDa based on SDS-PAGE	PASS
Specificity:	Based on IEP, this antibody has precipitin bands with: <ul style="list-style-type: none"><li>heavy (<math>\mu</math>) chains on Human IgM</li></ul>	PASS
Cross Reactivity:	Based on IEP, this antibody does not have precipitin bands to: <ul style="list-style-type: none"><li>light chains on all Human immunoglobulins</li><li>non-immunoglobulin Human serum proteins</li></ul>	PASS PASS
ELISA:	Dilution giving $A^{405}$ reading of $\geq 1.0$ when tested against Human IgM coated at 2 $\mu\text{g/ml}$	1: 1,120,000

### SDS-PAGE



- 1) GtxHu-006-G, Lot # 90-9-110620
- 2) Mol Weight Standard

### Immunoelectrophoresis (IEP)



Date: May 6, 2021

Signature: \_\_\_\_\_

Quality Control