

## Certificate of Analysis

Product: Goat anti-Human IgM ( $\mu$  chain), F(ab)'<sub>2</sub> Fragment, ALP Conjugate

Part Number: GtxHu-006-GALP

Lot Number: 79-108-051121

Amount: 0.5 mg of antibody at 1.50 mg/ml ( $E^{1\%}$  at 280 nm = 13.0)

Label: Alkaline Phosphatase (ALP)

Form: Clear, colorless liquid

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

Buffer: 30 mM Triethanolamine, pH 7.2, 5 mM Magnesium Chloride, 0.1 mM Zinc Chloride, 1% (w/v) BSA, Protease/IgG free

Preservative: 0.05% (w/v) Sodium Azide

Storage: Store undiluted liquid at 2-8 °C. For storage at -20 °C dilute with an equal volume of glycerol to prevent loss of enzymatic activity. 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:

- heavy ( $\mu$ ) chains on Human IgM

Cross Reactivity: Based on IEP, no reactivity is observed to:

- light chains on all Human immunoglobulins
- non-immunoglobulin Human serum proteins

Country of Origin: Goat antiserum was obtained from healthy animals of US origin and under the care of a registered veterinarian.

Note: This conjugate was prepared using Part # GtxHu-006-G, Lot # 90-9-110620.

Applications: This conjugate is suitable for use in: ELISA, WB, IHC, ICC, CL. The optimal working dilution should be determined by the investigator. Suggested starting dilution(s):

- 1:500-1:8,000 for ELISA/Western blot

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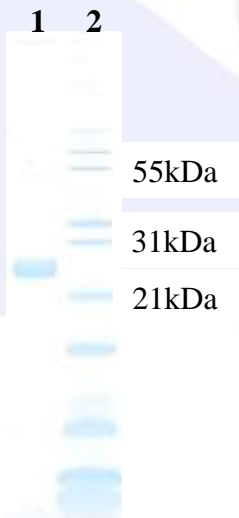
**Product may not be resold or modified for resale without prior written approval of ImmunoReagents, Inc.**

## Testing Results

**PRODUCT:** Goat anti-Human IgM ( $\mu$  chain), F(ab)'2 Fragment, ALP Conjugate  
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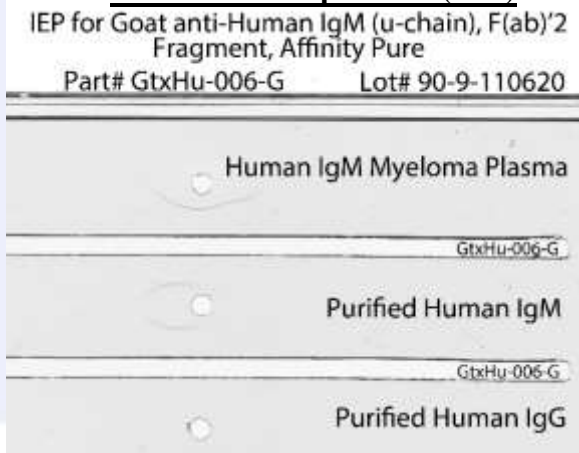
<u>TESTS</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance:	Clear, colorless liquid	PASS
Purity:	One predominant band at 24 kDa based on SDS-PAGE	PASS
Specificity:	Based on IEP, this antibody has precipitin bands with: <ul style="list-style-type: none"> <li>• heavy (<math>\mu</math>) chains on Human 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 $\mu\text{g/ml}$	1:13,390

**SDS-PAGE**



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

**Immuno-electrophoresis (IEP)**



Date: May 13, 2021

Signature: Lee Borden, Ph.D.  
 Quality Control