

## Human IgM $\mu$ -Chain Specific Antibody

Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

### Product Information

**Product No.:** I-1202  
**Clone:** HB57  
**RRID:** AB\_2893816  
**Isotype:** Mouse IgG1  
**Storage:** Sterile 2-8°C

### Product Description

#### Specificity:

Anti-Human IgM ( $\mu$  chain specific) monoclonal antibody reacts with human IgM through an epitope on the heavy chain. This antibody is non-reactive with IgG, IgA or light chains. Clone HB57 produces an antibody with one of the highest affinities available ( $K_a = 5.34 \times 10^8 \text{ M}^{-1}$ ).<sup>1</sup>

#### Antigen Distribution:

Surface IgM is expressed on B-lymphocytes.

#### Known Reactivity Species:

Human

#### Format:

Purified *in vivo* GOLD™ Functional Grade

### Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

### Purity

≥95% monomer by analytical SEC, >95% by SDS Page

### Endotoxin

< 1.0 EU/mg as determined by the LAL method

### Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

### Avoid Repeated Freeze Thaw Cycles.

### Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

### Applications

#### Applications and Recommended Usage (Quality Tested By Leinco):

**FC** This antibody has been quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25  $\mu\text{g}$  per million cells in 100  $\mu\text{l}$  volume.

**ELISA** This antibody is useful as the capture antibody in a sandwich ELISA. The suggested coating concentration is 5  $\mu\text{g}/\text{ml}$  (100  $\mu\text{l}/\text{well}$ )  $\mu\text{g}/\text{ml}$ .

### Country of Origin

USA

### References

1. Rudich, S. M. et al. (1988) *J. Exp. Med.* **168**:247

Products are for research use only. Not for use in diagnostic or therapeutic procedures.