



3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone 800-325-5832 • (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sia.com  
sigma-aldrich.com

## Product Information

### ANTI-HUMAN IgM ( $\mu$ -CHAIN SPECIFIC)

Developed in Goat

Fractionated Antiserum

Product No. I 9756

#### Product Description

Anti-Human IgM antiserum is developed in goat using purified human IgM as the immunogen. The fractionation procedure yields primarily the immunoglobulin fraction of antiserum. To ensure specificity, the fractionated antiserum is adsorbed using solid phase techniques, if necessary. Goat Anti-Human IgM is lyophilized from 0.01 M phosphate buffered saline, pH 7.2, to which no preservatives have been added.

#### Specificity

Specificity for the  $\mu$ -chain of human IgM is determined by Ouchterlony Double Diffusion (ODD). The antibody preparation is specific for human IgM when tested against purified human IgA, IgG, IgM, Bence Jones kappa and Bence Jones lambda myeloma proteins.

#### Identity and Purity

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). Electrophoresis of the antibody preparation followed by diffusion versus anti-goat IgG and anti-goat whole serum results in a single arc of precipitation against the anti-goat IgG and multiple precipitation arcs against the anti-goat whole serum.

**Protein Concentration** =  $\leq$  90 mg/ml by Biuret.

**Titer:** Minimum 1:16

Using an Ouchterlony double diffusion (ODD) assay, in 1% agarose, 5  $\mu$ l of serially diluted antiserum is reacted against 5  $\mu$ l of 1 mg/ml solution of purified human IgM (well diameter: 3.5 mm, well separation: 7.5 mm center to center). Titer is equivalent to the highest dilution of antiserum resulting in a visible precipitate after 24 hours.

#### Reconstitution and Storage Instructions

To one vial of lyophilized powder add 2 ml of deionized water. Rotate vial gently until powder dissolves. Prior to reconstitution store the product at 2-8 °C. After reconstitution, the solution may be stored frozen in working aliquots. Repeated freezing and thawing is **not** recommended. If slight turbidity occurs upon prolonged storage clarify the solution by centrifugation before use.

7/98

Sigma brand products are sold through Sigma-Aldrich, Inc.  
Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.  
Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.  
Please see reverse side of the invoice or packing slip.