9051 Mira Mesa Blvd, #910094
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# IgM Human

*Immunoglobulin-M Human*
*RCP1119*

## Product Overview

| | |
|---|---|
| Name | IgM Human |

**Description**

Immunoglobulin-M Human

**Introduction**

Immunoglobulin M (IgM) is a basic antibody produced by B cells. IgM is the first antibody to emerge in response to initial exposure to an antigen. IgM antibodies are found in the blood and lymph fluid and are the third most widespread serum Ig. Immunoglobulin M (IgM), being the 3rd most widespread serum Ig and exists in two forms- mostly as a pentamer (970kDa) but also as a hexamer. The pentameric IgM has 10 binding sites since each monomer has two antigen binding sites. Due to distance constraints in the hexameric complex, the J chain is found in pentameric IgM but not in the hexameric form. IgM antibodies, which appear early in the course of an infection, typically reappear to a smaller extent after additional exposure. IgM, as opposed to IgG antibodies, do not pass across the human placenta. These properties of IgM make it suitable for the diagnosis of infectious diseases.

**Source**

Human plasma.

**Physical Appearance**

Sterile Filtered solution.

**Formulation**

IgM solution (1.98mg/ml) contains 50mM TRIS buffer, pH 8.0, 0.2M NaCl and 0.05% NaN 3 .

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Purity**

Greater than 95.0%.

**Human Virus Test**

Human Immunoglobulin-M has been tested and certified negative for antibodies to HIV-1, HIV-2, anti-HBc, HCV and HBSAG.

**Precautions**

IgM Human is for research use only and not for use in diagnostic or therapeutic procedures.

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