

PRODUCT SPECIFICATIONS

Name	Anti-h IgM 7408 SPRN-5
Specificity	Antibody recognizes human immunoglobulin M
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100084
Product buffer solution	37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Analyte description	Immunoglobulin M (IgM) is a basic antibody that is present on B cells. It is the first antibody to appear in response to initial exposure to antigen. IgM forms polymers where multiple immunoglobulins are covalently linked together with disulfide bonds, mostly as a pentamer. Demonstrating IgM antibodies in a patient's serum indicates recent infection, or in a neonate's serum indicates intrauterine infection (e.g. congenital rubella).

PARAMETERS TESTED ON EACH LOT

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.1 – 7.0
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	6×10^{10} l/mol
Determination method	Radioimmunoassay (RIA)
Determination antigen	IgM, Scripps Laboratories (Cat I1124, Lot 794283)

Legal disclaimer

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Cross-reactivities

Human IgG < 0.01 % (Scripps Laboratories, Cat I1424, Lot 484183)
 Human IgA < 0.02 % (Scripps Laboratories, Cat I2224, Lot 127283)
 Goat IgG < 0.01 % (Chemicon, Cat PP40, Lot 1250CM)
 Rabbit IgG < 0.01 % (Chemicon, Cat PP64, Lot 3080CM)
 Equine IgG < 0.01 % (Chemicon, Cat PP30, Lot 310JCI1)
 Porcine IgG < 0.02 % (Chemicon, Cat AG114, Lot 154JCI1)
 Bovine IgG < 0.01 % (Chemicon, Cat PP03, Lot 012291CHM3)
 Ovine IgG < 0.01 % (Chemicon, Cat PP44, Lot 0630CM)

Epitope

Recognizes an epitope in the Fc region of IgM.

Pair recommendations

CAPTURE ANTIBODY

DETECTION ANTIBODY

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Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Product stability

TEMPERATURE, TIME

RESULT

-70 °C, 21 days	N/D
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+30 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 7 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2-8 °C in the product buffer.

Miscellaneous

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References

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