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Datasheet for 009-0131

Human IgM (myeloma) Fc5u

Overview

Description:	Human IgM (myeloma) Fc5µ Fragment - 009-0131
Item No.:	009-0131
Size:	1 mg
Applications:	SDS-PAGE
Origin:	Human

Product Details

Background:	Human IgM (myeloma) Fc5µ fragment consists of only the µ (mu) chain of the Fc fragment. Immunoglobulin M is the largest antibody isotype and the first to be secreted against an initial exposure to antigen. IgM is predominantly produced in the spleen. IgM is formed from covalently linking 5 immunoglobulins together. Due to this large size, IgM is typically isolated to the serum.
Synonyms:	Human immunoglobulin M fragment; Human IgM Fc5µ
Species of Origin:	Human
Format:	IgM
Type:	Native Protein

Target Details

Purity/Specificity:	Human IgM (myeloma) Fc5µ fragment has been prepared from Human IgM myeloma protein by digestion with trypsin followed by column chromatography. Purity was assessed by SDS-PAGE and HPLC to be greater than 95%. A single precipitin arc was observed against anti-human IgM Fc5µ and anti-human serum when assayed by immuno-electrophoresis at a concentration of 20 mg/ml. No reaction was observed against anti-Trypsin, anti-human IgG F(ab')2, anti-human IgG F(c), anti-human Kappa or anti-human Lambda.

Application Details

Tested Applications:	SDS-PAGE

Application Note:	Human IgM (myeloma) Fc5µ fragment has been tested in SDS-Page and can be used in Western Blotting and ELISA experiments as a control reagent.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IHC:	User Optimized
WB:	User Optimized

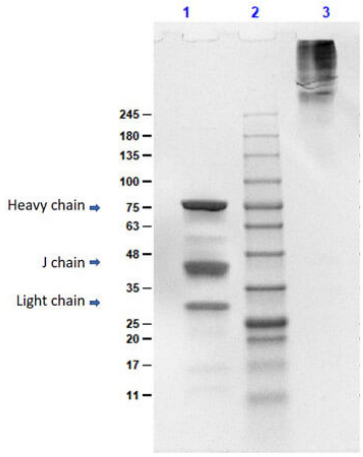
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.2 mg/mL by UV absorbance at 280 nm
Buffer:	0.1 M Tris Chloride, 0.5 M Sodium Chloride, pH 8.0
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. Human IgM (myeloma) Fc5µ fragment is stable 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



SDS-PAGE

SDS PAGE Results of Human IgM Fc5µ. Lane 1: Human IgM Fc5µ reduced [5µg]. Lane 2: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 3: Human IgM Fc5µ non-reduced [5µg]. 4-20% gel, Coomassie stained. Bands at expected MW.

Disclaimer

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

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