

# Product Datasheet

## Human IgM Antibody (P5E2) NBP1-78603

Unit Size: 100ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-78603**

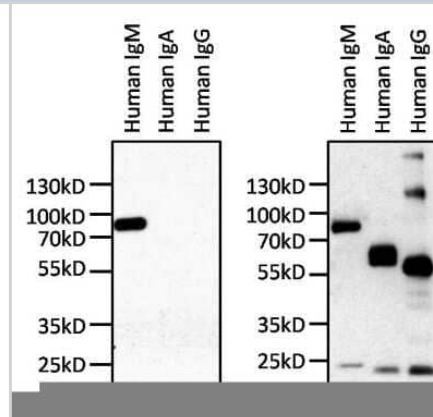
Human IgM Antibody (P5E2)

<b>Product Information</b>	
<b>Unit Size</b>	100ug
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	P5E2
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Ion exchange chromatography
<b>Buffer</b>	0.01M potassium phosphate with 0.135M NaCl, 1mg/ml BSA, 2.5mM KCl
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse Human IgM Antibody (P5E2) (NBP1-78603) is a monoclonal antibody validated for use in WB, ELISA, Flow and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Species</b>	Human
<b>Immunogen</b>	Purified Human Serum IgM
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunoprecipitation, Radioimmunoassay
<b>Recommended Dilutions</b>	Western Blot 1:100 - 1:400, Flow Cytometry 1 ug/ml, ELISA 1 ug/ml, Immunoprecipitation 1:10 - 1:500, Radioimmunoassay 1:100 - 1:2000

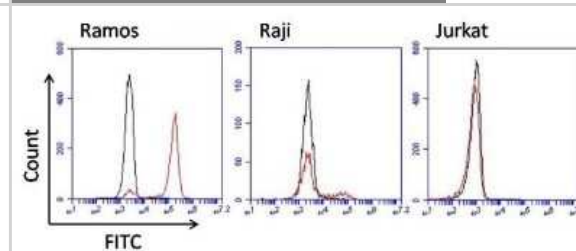


## Images

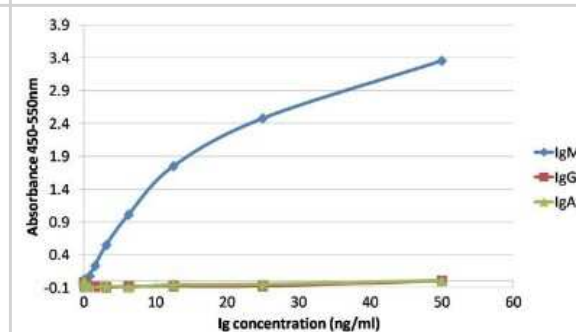
Western Blot: Human IgM Antibody (P5E2) [NBP1-78603] - Analysis of 1ug of purified Human IgM, Human IgA, and Human IgG and 10ul of PageRuler Prestained Protein Ladder per well.



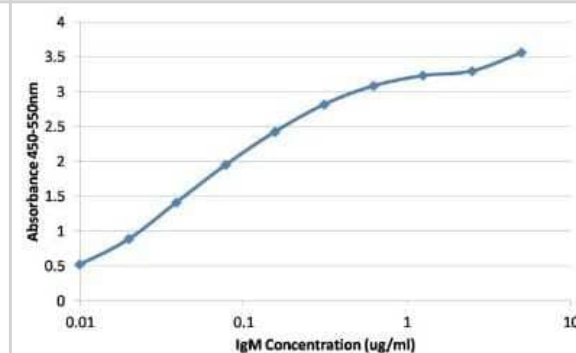
Flow Cytometry: Human IgM Antibody (P5E2) [NBP1-78603] - Analysis of surface IgM expression was performed on Ramos (surface and cytoplasmic IgG/lambda-expressing B cells), Raji (cytoplasmic IgG/kappa-expressing B cells), and Jurkat (T cells) cell lines. Cells were stained with a mouse anti-human IgM monoclonal antibody or mouse IgG1 isotype control (black histogram), each at a concentration of 1ug/ml. After incubation of the primary antibody on ice for 1 hour, the cells were stained with a FITC-conjugated goat anti-mouse IgG Fc secondary antibody at a dilution of 1:500 for 30 minutes on ice. The representative 10,000 cells were obtained for each sample.



ELISA: Human IgM Antibody (P5E2) [NBP1-78603] - Direct ELISA analysis of various immunoglobulin (Ig) isotypes was performed by coating wells of a 96-well plate with 100ul per well of Human IgM, Human IgG, or Human IgA diluted in carbonate/bicarbonate buffer, starting at a concentration of 50ng/ml and serially diluting 2-fold to a concentration of 0.05ng/ml, overnight at 4C. Wells of the plate were washed, blocked with StartingBlock blocking buffer, and incubated with 100ul per well of a mouse anti-human IgM monoclonal antibody at a concentration of 1ug/ml for 1 hour at room temperature. The plate was washed, then incubated with 100ul per well of an HRP-conjugated goat anti-mouse IgG Fc secondary antibody at a dilution of 1:8000 for 1 hour at room temperature. Detection was performed using 1-Step Ultra TMB substrate for 5 minutes at room temperature in the dark. The reaction was stopped with 0.16M sulfuric acid, and absorbances were read on a spectrophotometer at 450-550nm.



ELISA: Human IgM Antibody (P5E2) [NBP1-78603] - Direct ELISA analysis of IgM was performed by coating wells of a 96-well plate with 100ul per well of Human IgM diluted in carbonate/bicarbonate buffer, starting at a concentration of 5ug/ml and serially diluting 2-fold to a concentration of 5ng/ml, overnight at 4C. Wells of the plate were washed, blocked with StartingBlock blocking buffer, and incubated with 100ul per well of a mouse anti-human IgM monoclonal antibody at a concentration of 1ug/ml for 1 hour at room temperature. The plate was washed, then incubated with 100ul per well of an HRP-conjugated goat anti-mouse IgG Fc secondary antibody at a dilution of 1:8000 for 1 hour at room temperature. Detection was performed using 1-Step Ultra TMB substrate for 5 minutes at room temperature in the dark. The reaction was stopped with 0.16M sulfuric acid, and absorbances were read on a spectrophotometer at 450-550nm.





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### **Products Related to NBP1-78603**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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