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Datasheet for ABIN6967558 IgM ELISA Kit

Image



Overview

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Quantity:	96 tests
Target:	lgM
Reactivity:	Monkey
Method Type:	Sandwich ELISA
Detection Range:	0.313 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.313 ng/mL
Application:	ELISA

Product Details

Purpose:	For quantitative detection of IgM in serum, plasma, tissue homogenates.	
Sample Type:	Plasma, Serum, Tissue Homogenate	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	This assay has high sensitivity and excellent specificity for detection of IgM. No significant cross-reactivity or interference between IgM and analogues was observed. Note: Limited by current skills and knowledge, it is difficult for us to complete the cross-reactivity detection between IgM and all the analogues, therefore, cross reaction may still exist.	
Sensitivity:	0.188 ng/mL	
Components:	 Pre-coated, ready to use 96-well strip plate Plate sealer for 96 wells Standard 	

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	Sample/Standard Dilution Buffer
	Biotin-labeled Antibody (Concentrated)
	Antibody Dilution Buffer
	HRP-Streptavidin Conjugate (SABC)
	SABC Dilution Buffer
	TMB Substrate
	Stop Solution
	Wash Buffer (25 x concentrate)
	Instruction manual
Material not included:	1. Microplate reader (wavelength:450nm)
	2. 37 °C incubator
	3. Automated plate washer
	4. Precision single and multi-channel pipette and disposable tips
	5. Clean tubes and Eppendorf tubes
	6. Deionized or distilled water

Target Details

Target:	IgM
Alternative Name:	Immunoglobulin M (IgM Products)
Target Type:	Antibody
Background:	IgM, Immunoglobulin M

Application Details

Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	 Wash plate 2 times before adding Standard, Sample (diluted at least 1/2 with Sample Dilution Buffer) and Control (blank) wells! Add 100 µL standard or sample to each well and incubate for 90 minutes at 37 °C. Aspirate and wash plates 2 times. Add 100 µL Biotin-labeled antibody working solution to each well and incubate for 60 minutes at 37 °C. Aspirate and wash plates 3 times. Add 100 µL SABC Working Solution into each well and incubate for 30 minutes at 37 °C. Aspirate and wash plates 5 times. Add 90 µL TMB Substrate Solution. Incubate 10-20 minutes at 37 °C.
	9. Add 50 μ L Stop Solution. Read at 450nm immediately and calculation.

tube at room temp tube concentration 2. Label 7 EP tubes withe Sample Dilution zero tube) into 1 st tube and mix them thoroughly, and so best to use Standa • Preparation of Biotim Prepare it within 1 ho 1. Calculate required (Allow 0.1-0.2 mLm 2. Dilute the Biotin-de thoroughly. (i.e. Ad • Preparation of HRP-S Prepare it within 30 m 1. Calculate required (Allow 0.1-0.2 mLm 2. Dilute the SABC wi of SABC into 99 µL Sample Preparation: • It is recommended to and denaturationmay therefore be stored for	Dilution Buffer into one Standard tube (labeled as zero tube), keep the erature for 10 minutes and mix them thoroughly. Note: If the standard higher than the range of the kit,please dilute it and labeled as zero tube rith 1/2, 1/4, 1/8, 1/16, 1/32, 1/64 and blank respectively. Add 0.3 mLof in Buffer into each tube. Add 0.3 mLof the above Standard solution (from tube and mix them thoroughly. Transfer 0.3 mL from 1st tube to 2nd thoroughly. Transfer 0.3 mL from 2nd tube to 3rd tube and mix them on. Sample Dilution Buffer was used for the blank control. Note: It is rd Solutions within 2 hours. labeled Antibody Working Solution: ur before experiment. total volume of the working solution: 0.1ml/well x quantity of wells. hore than the total volume.)
 (Allow 0.1-0.2 mLn 2. Dilute the Biotin-de thoroughly. (i.e. Ad Preparation of HRP-S Prepare it within 30 n 1. Calculate required (Allow 0.1-0.2 mLn 2. Dilute the SABC wi of SABC into 99 µL Sample Preparation: It is recommended to and denaturationmay therefore be stored for 	nore than the total volume.)
of SABC into 99 µL Sample Preparation: and denaturationmay therefore be stored for	tection antibody with Antibody Dilution Buffer at 1:100 and mix them d 1 μL Biotin-labeled antibody into 99 μL Antibody Dilution Buffer.) treptavidin Conjugate (SABC) Working Solution: ninutes before experiment. total volume of the working solution: 0.1ml/well x quantity of wells. nore than the total volume.)
and denaturationmay therefore be stored for	th SABC Dilution Buffer at 1:100 and mix them thoroughly. (i.e. Add 1 μL of SABC Dilution Buffer.)
If the sample type is	e use fresh samples without long storage, otherwise protein degradation occur in these samples, leading to false results. Samples should or a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ freeze-thawcycles should be avoided. Prior to assay, the frozen owly thawed and centrifuged toremove precipitates. not specified in the instructions, a preliminary test is necessary to
possibility of causing	ty with the kit. d to prepare tissue homogenates or cell culture supernatant, there is a a deviation due to the introduced chemical substance.The in factor is for reference only.
Please estimate the oracle are not in therange or a content of the content o	concentration of the samples before performing the test. If the values the standard curve, the optimal sample dilution for the particular
Assay Procedure: Washing Manual: Discard the sol	determined.Samples should then be diluted with PBS ($pH = 7.0-7.2$).

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/5 | Product datasheet for ABIN6967558 | 07/25/2024 | Copyright antibodies-online. All rights reserved. absorbent filter papers or other absorbent material. Fill each well completely with $350 \,\mu$ L wash buffer and soak for 1 to 2 minutes, then aspirate contents from the plate, and clap the plate on absorbent filter papers or other absorbent material.

Automatic: Aspirate all wells, and then wash plate with 350 µL wash buffer. After the final wash, invert plate, and clap the plate on absorbent filter papers or other absorbent material. It is recommended that the washer shall be set for soaking 1 minute. (Note: set the height of the needles, be sure the fluid can be sipped up completely)

When diluting samples and reagents, they must be mixed completely and evenly. Before adding TMB into wells, equilibrate TMB Substrate for 30 minutes at 37 °C. It is recommended to plot a standard curve for each test.

- Set standard, test samples (diluted at least 1/2 with Sample Dilution Buffer), control (blank) wells on the pre-coated plate respectively, and then, records their positions. It is recommended to measure each standard and sample in duplicate. Wash plate 2 times before adding standard, sample and control (blank) wells!
- 2. Prepare Standards: Aliquot 100 µL of zero tube, 1sttube, 2ndtube, 3rdtube, 4thtube, 5thtube, 6thtube and Sample Dilution Buffer (blank) into the standard wells.
- 3. Add Samples: Add 100 μ L of properly diluted sample into test sample wells.
- 4. Incubate: Seal the plate with a cover and incubate at 37 °C for 90 minutes.
- 5. Wash: Remove the cover and discard the plate content, and wash plate 2 times with Wash Buffer. Do NOT let the wells dry completely at any time.
- 6. Biotin-labeled Antibody: Add 100 μL Biotin-labeled antibody working solution into above wells (standard, test sample and blank wells). Add the solution at the bottom of each well without touching the sidewall, cover the plate and incubate at 37 °C for 60 minutes.
- 7. Wash: Remove the cover, and wash plate 3 times with Wash Buffer, and let the Wash Buffer stay in the wells for 1-2 minutes each time.
- 8. HRP-Streptavidin Conjugate (SABC): Add 100 μL of SABC Working Solution into each well, cover the plate and incubate at 37 °C for 30 minutes.
- 9. Wash: Remove the cover and wash plate 5 times with Wash Buffer, and let the wash buffer stay in the wells for 1-2 minutes each time.
- 10. TMB Substrate: Add 90 µL TMB Substrate into each well, cover the plate and incubate at 37 °C in dark within 10-20 minutes. (Note: The reaction time can be shortened or extended according to the actual color change, but not more than 30 minutes. You can terminate the reaction when apparent gradient appeared in standard wells.)
- 11. Stop: Add 50 μ L Stop Solution into each well. The color will turn yellow immediately. The adding order of Stop Solution should be as the same as the TMB Substrate Solution.
- 12. OD Measurement: Read the O.D. absorbance at 450nm in Microplate Reader immediately after adding the stop solution.

Regarding calculation, (the relative O.D.450) = (the O.D.450 of each well) - (the O.D.450 of blank well). The standard curve can be plotted as the relative O.D.450 of each standard solution (Y) vs. the respective concentration of the standard solution (X). The target concentration of the

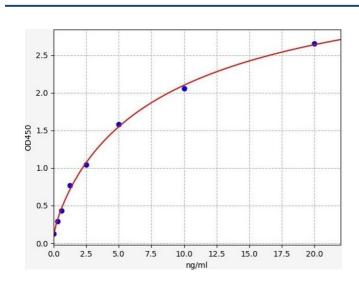
Application Details

samples can be interpolated from the standard curve. It is recommended to use some
professional software to do this calculation, such as Curve Expert 1.3 or 1.4.
Note: If the samples measured were diluted, multiply the dilution factor to the concentrations
from interpolation to obtain the concentration before dilution.
Intra-Assay: CV<8%
Inter-Assay: CV<10%
For Research Use only
4 °C,-20 °C
1. For unopened kit: All the reagents should be kept according to the labels on vials. The Reference Standard and the 96-well stripe plate should be stored at -20 °C upon receipt while the other reagents should be stored at 4 °C.

Expiry Date:

6 months

Images



ELISA

Image 1. Typical standard curve

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