

OriGene Technologies, Inc.

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Product datasheet for AM39014RP-N

CD19 Mouse Monoclonal Antibody [Clone ID: HD37]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HD37
Applications:	FC
Recommended Dilution:	Anti-CD19 (clone HD37) can be applied in Flow Cytometry and in Immunohistochemistry using Frozen tissue sections. Flow Cytometry: please see "Protocols" below. Labelled reagent is effectively formulated for direct immunofluorescent staining.
Reactivity:	Human
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal



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Specificity:	Clone HD37 is specific for CD19, it recognizes a 95 kD transmembrane glycoprotein.
	Testing by flow cytometry using a 'lyse-wash' method on whole blood from healthy donors showed the following values expressed in terms of % of the total lymphocyte count:
	Product code: AM39014AC-N (anti-CD19 APC) n: 9
	Mean % positive: 9,16
	S.D.: 1,95
	% CV: 21,31
	Product code: AM39014FC-N (anti-CD19 FITC) n: 9
	Mean % positive: 10,80
	S.D.: 2,14
	% CV: 19,79
	Product code: AM39014RP-N (anti-CD19 PE)
	n: 9
	Mean % positive: 10,57
	S.D.: 2,06
	% CV: 19,49
Formulation:	0.01 M sodium phosphate, 0.15 M NaCl, pH 7.3, 0.2% BSA, 0.09% sodium azide
	Label: PE
	State: Liquid purified Ig fraction
	Label: <u>Cat. No. Label EX-max (nm) / EM-max (nm):</u> AM39014AC-N APC 595, 633, 635, 647 / 660
	AM39014FC-N FITC 488 / 519
	AM39014RP-N PE 488, 532 / 578
	AM39014PP-N PerCP 488, 532 / 678
	AM39014PC5-N 488, 532 / 695 AM39014PU-N Pure . /
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	PE
torage:	Store the antibody undiluted at 2-8°C. Fluorochrome labelled product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.

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equently appear as mature CD19+ B cells appropriate T cell help, they may further ells.The function of the CD19 molecule is
n of B cell proliferation. CD19 is nerefore commonly used in routine cells is important in the diagnosis of a (B ALL), and plasma cells. Distinction performed using CD19 antibodies or membrane Ig. A large number of B ression of CD19 and one or more nia (HCL), which shows specific mbination CD103/CD19 is an important ombinations for distinction between CD19 (e.g. Chronic Lymphatic Leukemia); cyCD79a (Acute B cell leukemia). ells.
nd APC, will have a greater separation erlap, the percentage of positive cells e of fluorescent label. t can interfere with antigen target o account when samples are analyzed ed blood. Reagent performance can be
d (FITC, R-PE, APC, PerCP or PerCP-Cy5.5 6 leukocytes) to a 5 ml reagent tube. The body. (Appropriate mouse Ig isotype belling study). dy and cells. ature in the dark. the dark. 10 minutes in the dark. tes at 1000 x g. n 200 μl of PBS. natively, the cells may be fixed by 0.05% day. Some antigens are readily destroyed
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upon fixation and this should be taken into account when using this alternative).

Flow cytometry method for use with dual and triple combinations

1. Add 100 μ l of EDTA-treated blood (i.e. approx. 10e6 leukocytes) to a 5 ml reagent tube. The content of one tube is sufficient to perform one test.

For combinations with anti-kappa and/or anti-lambda Ig see Application note below.

2. Add to each tube 20 µl of labelled monoclonal antibody combination.

(Appropriate mouse Ig isotype control samples should always be included in any labeling study).

3. Vortex the tube to ensure thorough mixing of antibody and cells.

4. Incubate the tube for 15 minutes at room temperature in the dark.

5. Add 100 μ l of a lyse reagent and mix immediately.

6. Incubate for 10 minutes at room temperature in the dark.

7. Add 2 ml of demineralized water and incubate for 10 minutes in the dark.

8. Centrifuge the labelled cell suspension for 2 minutes at 1000 x g.

9. Remove the supernatant and resuspend the cells in 200 μ l of PBS.

10. Analyze by flow cytometry within four hours (alternatively, the cells may be fixed by 0.05% of formaline in buffered saline for analysis the next day. Some antigens are readily destroyed upon fixation and this should be taken into account when using this alternative).

Application note for anti-kappa and/or anti-lambda lg combinations

Add 2 ml of PBS containing 0.001% (v/v) Heparin (prewarmed to 37°C) to the cell suspension Vortex, centrifuge (2 min at 300x g) and discard the supernatant.

Repeat this step twice.

Resuspend the pelleted blood cells in 100 μ l PBS, pH 7.2, containing 0.001% (v/v) Heparin.

Flow cytometry method for use with purified monoclonal antibodies

1. Add 100 μ l of EDTA-treated blood (i.e. approx. 10e6 leukocytes) to a 5 ml reagent tube. The content of one tube is sufficient to perform one test.

2. Add to each tube 10 μ l of purified monoclonal antibody. (Appropriate mouse lg isotype control samples should always be included in any labelling study).

Vortex the tube to ensure thorough mixing of antibody and cells.

3. Incubate the tube for 15 minutes at room temperature in the dark.

4. Wash the labelled cells by adding 2 ml of PBS containing 0.001% (v/v) Heparin, vortexing and centrifuging (2 min 1000 x g) and discard the supernatant.

5. Add 50 μ I of appropriate dilution of F(ab)2 Rabbit Anti Mouse IgG fluorescent conjugate (e.g.FITC or R-PE) in PBS containing 0.001% (v/v) Heparin to the tube. It is recommended that the tube is protected from light.

6. Mix by vortexing and incubate for 15 minutes at room temperature in the dark.

7. Add 100 μ l of a lyse reagent and mix immediately.

8. Incubate for 10 minutes at room temperature in the dark.

9. Add 2 ml of demineralized water and incubate for 10 minutes in the dark.

10. Centrifuge the labelled cell suspension for 2 minutes at 1000 x g.

11. Remove the supernatant and resuspend the cells in 200 μl of PBS.

12. Analyze by flow cytometry within four hours (alternatively, the cells may be fixed by 0.05%

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CD19 Mouse Monoclonal Antibody [Clone ID: HD37] – AM39014RP-N

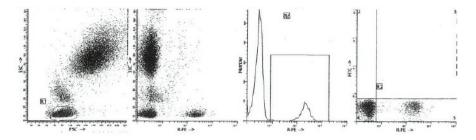
of formaline in buffered saline for analysis the next day. Some antigens are readily destroyed upon fixation and this should be taken into account when using this alternative).

Protein Families: Druggable Genome, Transmembrane

Protein Pathways:

B cell receptor signaling pathway, Hematopoietic cell lineage, Primary immunodeficiency

Product images:



Staining with clone HD37 (CD19) monoclonal antibodies is illustrated by flow cytometry analysis of normal blood cells. Direct staining was performed using 10 µl of the PE - conjugated antibody with 100 µl blood sample.

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