

## Product datasheet for **AM31864PU-N**

### Cd55 Hamster Monoclonal Antibody [Clone ID: RIKO-3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	RIKO-3
Applications:	ELISA, FC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western Blot.</b> <b>Flow Cytometry</b> (See Protocols).
Reactivity:	Mouse
Host:	Hamster
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	GPI-DAF transfected CHO cells from Armenian Hamster spleen. Fusion Partner: P3U1
Specificity:	This DAF Monoclonal Antibody (Clone: RIKO-3) detects Mouse DAF. Other species not tested.
Formulation:	PBS containing 0.02% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction from Ascites
Concentration:	lot specific
Purification:	Protein G Affinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD55 molecule, decay accelerating factor for complement
Database Link:	<a href="#">Entrez Gene 13136 Mouse</a> <a href="#">Q61475</a>



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**Background:** DAF is one of several membrane proteins that prevent host cells from homologous complement attack. The two mouse DAF isoforms are effective against rat complement, but not against human and guinea pig complement. GPI-DAF is expressed on erythrocytes, spleen and testis while TM-DAF (transmembrane-DAF) is expressed only in testis. Both types of DAF transfectants avoided C3 deposition more successfully than non-transfectant cells.

**Synonyms:** CR; CROM; DAF; TC

**Note:** Protocol: **Flow Cytometry Analysis:**

**Method:**

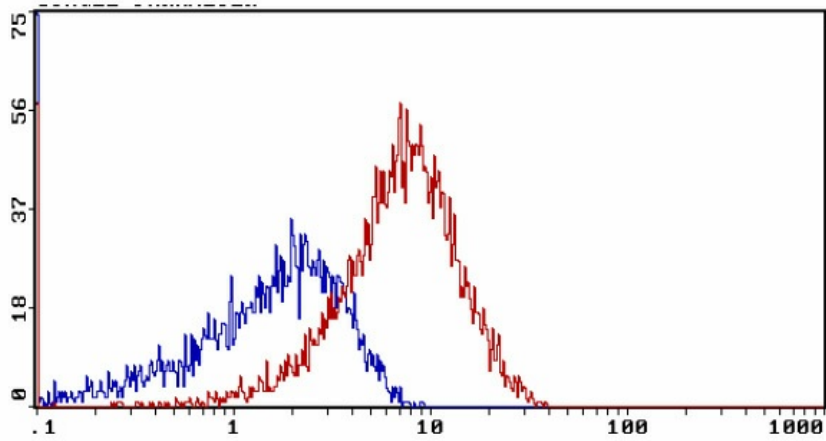
1. Prepare cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of  $2 \times 10^7$  cells/ml in media A. Add 50  $\mu$ l of this suspension to each tube (each tube will then contain  $1 \times 10^6$  cells, representing 1 test).
4. To each tube, add 0.2  $\mu$ g of AM31864PU-N per  $1 \times 10^6$  cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
7. Wash 2 times at 4°C.
8. Add appropriate amount of FITC Goat anti-Hamster Ig secondary antibody at 1/100 dilution.
9. Incubate the tubes at 4°C for 30-60 minutes.  
(It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C in media B.
11. Resuspend the cell pellet in 50  $\mu$ l ice cold media B.
12. Transfer to suitable tubes for flow cytometric analysis containing 15  $\mu$ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

**Media:**

- A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).

**Results:**

Mouse Strain: Balb/c.  
Cell Concentration :  $1 \times 10^6$  cells per test.  
Antibody Concentration Used: 0.2  $\mu$ g/ $10^6$  cells.  
Isotypic Control: Armenian Hamster IgG-Purified.

**Product images:**

Cell Source: Red Blood Cells. Percentage of cells stained above control: 47.9%.