

Product datasheet for SM083FS

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

MHC Class II I-Ak Mouse Monoclonal Antibody [Clone ID: 14V.18]

Product data:

Product Type: Primary Antibodies

Clone Name: 14V.18

Applications: FC

Recommended Dilution: Flow Cytometry (See Protocols).

Reactivity: Mouse
Host: Mouse
Isotype: IgG2a

Clonality: Monoclonal Immunogen: A.TL spleen.

Donor: A.TH spleen.

Fusion Partner: P3-X63-Ag8

Specificity: This Monoclonal antibody is a cytotoxic antibody specific for cells expressing the Ia antigen

coded for by the A subregion of the k haplotype. The reaction pattern of this antibody with a panel of inbred and recombinant haplotypes demonstrates that the antibody reacts with

la.m2, a private specificity of the H-2k haplotype.

This antibody can be used to quantitate or to eliminate cells bearing the I-Ak (Ia.m2) antigen.

Formulation: PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein

to bring total protein concentration to 4-5 mg/ml

Label: FITC

State: Liquid purified IgG fraction

Label: Fluorescein

Concentration: lot specific

Purification: Protein G Chromatography

Conjugation: FITC

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.

This product is photosensitive and should be protected from light.

Stability: Shelf life: one year from despatch.





MHC Class II I-Ak Mouse Monoclonal Antibody [Clone ID: 14V.18] - SM083FS

Database Link: P01910
Synonyms: H2-Aa



Note:

Protocol: FLOW CYTOMETRY ANALYSIS:

Method:

- 1. Prepare a 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 2x10e7 cells/ml in media A. Add $50~\mu$ l of this suspension to each tube (each tube will then contain 1~x~106 cells, representing 1 test).
- 4. To each tube, add 1.0 μg* of SM083FS per 10e6 cells.
- 5. Vortex the tubes to ensure thorough mixing of antibody and cells.
- 6. Incubate the tubes for 30 minutes at 4°C.

(It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive.)

- 7. Wash 2 times at 4°C.
- 8. Resuspend the cell pellet in 50 µl ice cold media B.
- 9. Transfer to suitable tubes for flow cytometric analysis containing 15 μ 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 μ l of 2M sodium

azide in 100 mls).

B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 μ l of 2M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: A.TL

Cell Concentration : 1x10e6 cells per test. Antibody Concentration Used: 1.0 μ g/106 cells.

Isotypic Control: FITC Mouse IgG2a

Cell Source Percentage of cells stained above control:

Thymus: 32.5% Spleen: 75.4% Lymph Node: 32.1% Bone Marrow: 21.6%

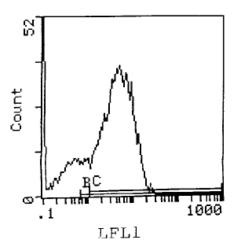
Strain Distribution by Flow Cytometry Analysis:

Cell Concentration : 1x10e6 cells per test.

Antibody Concentration Used: 1.0 µg /10e6 cells.



Product images:



Cell Source: Spleen. Percentage of cells stained above control: 75.4%

Haplotype

Strain	K	A	В	J	E	C	s	G	D	+/-	
A.TH	S	s	S	s	s	s	s	s	d	-	
A.TL	s	k	k	k	k	k	k	k	d	+	
B10.A	k	k	k	k	k	d	d	d	d	+	
B10.A(4R)	k	k	b	b	b	b	b	b	b	+	
B10.BR	k	k	k	k	k	k	k	k	k	+	
B10.D2	d	d	d	d	d	d	d	d	d	-	
C3H/He	k	k	k	k	k	k	k	k	k	+	
C57BL/6		ь	ь	b	ь	b	ь	ь	ь	ь	-