

## Product datasheet for **SM080FS**

### MHC Class II I-Ab Mouse Monoclonal Antibody [Clone ID: 25-5-16S]

#### Product data:

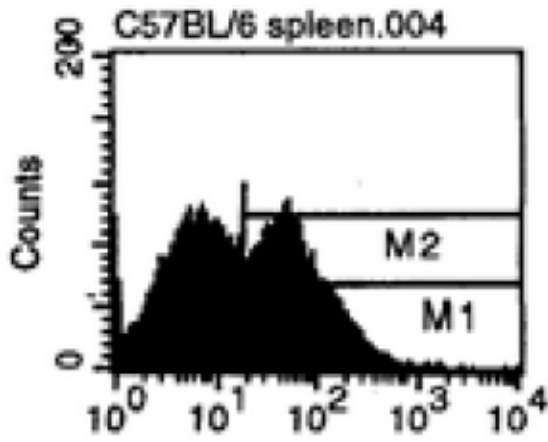
Product Type:	Primary Antibodies
Clone Name:	25-5-16S
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry</b> (See Protocols).
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Specificity:	Recognizes Mouse MHC class II I-Ab, private for I-Ab. This Monoclonal antibody specifically reacts with the I-Ab encoded MHC class II antigen expressed on Mouse strains of the H-2b haplotype.
Formulation:	PBS containing 0.02% Sodium Azide as a preservative as a and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml Label: FITC State: Liquid purified IgM fraction
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">P18468</a>
Background:	Class II antigens are most highly expressed on antigen-presenting cells including B cells, macrophages, dendritic cells and certain epithelial cells.
Synonyms:	H2-Eb1, H-2 class II histocompatibility antigen I-A beta chain



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- 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  $2 \times 10^7$  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  $\sim 1.0$   $\mu$ g of SM080FS per  $10^6$  cells.
  5. Vortex the tubes to ensure thorough mixing of antibody and cells.
  6. Incubate the tubes for 30 minutes at 4°C.  
(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  $\mu$ l ice cold media B.
  9. 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 ml of 2M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 ml of 2M sodium azide in 100 mls).
- Results:**
- Tissue Distribution by Flow Cytometry Analysis:
- Mouse strain: C57BL/6
- Cell Concentration:  $1 \times 10^6$  cells per test.
- Antibody Concentration Used: 1.0  $\mu$ g/ $10^6$  cells.
- Isotypic Control: FITC Mouse IgM

Product images:



Cell Source: Spleen. Percentage of cells stained above control: 49.3%