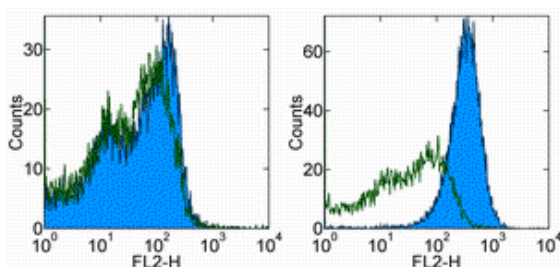


## Anti-Mouse OVA<sub>257-264</sub> (SIINFEKL) peptide bound to H-2Kb Purified

**Catalog Number:** 14-5743

**Also Known As:** H-2Kb-SIINFEKL, OVA-Kb

**RUO: For Research Use Only**



Staining of C57BL/6 splenocytes, either unpulsed (left) or pulsed with the SIINFEKL peptide (right), with 0.125 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (open histogram) or 0.125 µg of Anti-Mouse OVA<sub>257-264</sub> (SIINFEKL) peptide bound to H-2Kb Purified (filled histogram) followed by F(ab')<sub>2</sub> Anti-Mouse IgG PE (cat. 12-4012). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse OVA<sub>257-264</sub> (SIINFEKL) peptide bound to H-2Kb Purified

**REF** **Catalog Number:** 14-5743

**Clone:** eBio25-D1.16 (25-D1.16)

**Concentration:** 0.5 mg/ml


**Host/Isotype:** Mouse IgG1, κ

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

### Description

The 25-D1.16 monoclonal antibody reacts with the ovalbumin-derived peptide SIINFEKL bound to H-2Kb of MHC class I, but not with unbound H-2Kb, or H-2Kb bound with an irrelevant peptide. This antibody has proven to be very useful tracking the quantity and localization of these specific antigen-presenting cells (APC) in vivo.

### Applications Reported

This eBio25-D1.16 (25-D1.16) antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining.

### Applications Tested

This eBio25-D1.16 (25-D1.16) antibody has been tested by flow cytometric analysis of SIINFEKL-pulsed C57BL/6 splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### Cells can be pulsed with the SIINFEKL peptide according to the following protocol:

1. With cells in flow staining buffer, add SIINFEKL peptide to a final concentration of 30 µM.
2. Incubate cells at 37°C for 2 hours.
3. Wash cells with flow staining buffer.
4. Proceed with cell surface staining as normal.

For additional information see the references listed below.

### References

Porgador A, Yewdell JW, Deng Y, Bennink JR, Germain RN. Localization, quantitation, and in situ detection of specific peptide-MHC class I complexes using a monoclonal antibody. *Immunity*. 1997 Jun;6(6):715-26. (25-D1.16, mAb development, PubMed)

Messaoudi I, LeMaout J, Nikolic-Zugic J. The mode of ligand recognition by two peptide:MHC class I-specific monoclonal antibodies. *J Immunol*. 1999 Sep 15;163(6):3286-94.

Ackerman AL, Kyritsis C, Tampé R, Cresswell P. Access of soluble antigens to the endoplasmic reticulum can explain cross-presentation by dendritic cells. *Nat Immunol.* 2005 Jan;6(1):107-13.

Berwin B, Hart JP, Rice S, Gass C, Pizzo SV, Post SR, Nicchitta CV. Scavenger receptor-A mediates gp96/GRP94 and calreticulin internalization by antigen-presenting cells. *EMBO J.* 2003 Nov 17;22(22):6127-36.

**Related Products**

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4012 F(ab')<sub>2</sub> Anti-Mouse IgG PE (polyclonal)

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified

14-5999 Anti-Mouse MHC Class I (H-2Db) Purified (28-14-8)

17-4317 Streptavidin APC

---

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.eBioscience.com](http://www.eBioscience.com) • [info@eBioscience.com](mailto:info@eBioscience.com)