

## OriGene Technologies, Inc.

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## Product datasheet for CL129FX

## MHC Class I (RT1Ac) Mouse Monoclonal Antibody [Clone ID: OX-27]

## **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OX-27
Applications:	FC
Recommended Dilution:	Flow cytometry: use 0.5 $\mu$ g of neat antibody to label 10e6 cells.
Reactivity:	Rat
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Phytohaemagglutinin Blasts.
Formulation:	PBS buffer with 0.02% sodium azide as preservative and 0.5 % EIA grade BSA as stabilizer. Label: FITC State: Liquid purified IgG fraction. Label: conjugated
Concentration:	lot specific
Purification:	Protein G Chromatography.
Conjugation:	FITC
Storage:	Store the antibody 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.
Database Link:	<u>Q31255</u>
Background:	MHC Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. MHC class I antigens are heterodimers consisting of one alpha chain (44kDa) with beta 2 microglobulin (11.5 kDa). The antigen is expressed by all somatic cells at varying levels. MHC Class I molecules are expressed on most nucleated cells where they present endogenously synthesized antigenic peptides to CD8+ T lymphocytes, which are usually cytotoxic T cells. Fibroblasts or neurons however only show a low level of antigen.
Synonyms:	RT1-A3



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chimeras. (1,2)
Protocol: FLOW CYTOMETRY ANALYSIS:
<ul> <li>Method:</li> <li>1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Rat cell separation medium</li> <li>2. Wash 2 times.</li> <li>3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test).</li> <li>4. To each tube, add 0.5-0.2 µg antibody per 10e6 cells.</li> <li>5. Vortex the tubes to ensure thorough mixing of antibody and cells.</li> <li>6. Incubate the tubes for 30 minutes at 4°C. (protect tubes from light)</li> <li>7. Wash 2 times at 4°C.</li> <li>8. Resuspend the cell pellet in 50 µl ice cold media B.</li> <li>9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide</li> </ul>
at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.
<b>Media:</b> A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 μl of 2M sodium azide in 100 mls). B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 μl of 2M sodium azide in 100 mls).
<b>Results-Tissue Distribution:</b> Rat Strain: Brown Norway Cell Concentration: 1x10e6 cells per test. Antibody Concentration Used: 0.2 μg/10e6 cells Isotypic Control: FITC Mouse IgG2a.
<b>Cell Source-Percentage of cells stained above control:</b> Thymus: 73.9% Spleen: 99.0% Lymph Node: 100%

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