Acris Antibodies GmbH

US office:
Acris Antibodies, Inc.
San Diego, CA
UNITED STATES
Phone: +1-858-888-7900
Fax: +1-858-888-7904
US-info@acris-antibodies.com

Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

Monoclonal Antibody to MHC Class I (RT1Ac) - PE

Alternate names:	MHC class I RT1.Ac heavy chain, RT1-A3
Catalog No.:	CL129R
Quantity:	100 Tests
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.
Uniprot ID:	Q31255
NCBI:	10116
Host / Isotype:	Mouse / IgG2a
Clone:	OX-27
Immunogen:	PHA activated rat lymphocytes
Format:	**State:** Lyophilized purified IgG fraction **Purification:** Protein G chromatography **Buffer System:** PBS containing 1% BSA and 0.09% sodium azide **Label:** PE – R. Phycoerythrin (RPE) **Reconstitution:** Restore with 1 ml distilled water.
Applications:	Flow cytometry: use 10 µl of neat antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises a polymorphic determinant (c haplotype) of rat Class I MHC Antigen (RT-1A).
Storage:	Prior to and following reconstitution store (undiluted) at 2-8°C. DO NOT FREEZE. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General References:	1. Jefferies, W.A., Brandon, M.R., Williams, A.F. and Hunt, S.V. (1985). Immunology 54: 333-341. 2. Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. Immunology 42: 593-600.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

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