



Datasheet for ABIN120722

## anti-MHC Class I RT1.Aa alpha-Chain (RT1.AA) antibody



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### 1 Publication

#### Overview

Quantity:	0.1 mg
Target:	MHC Class I RT1.Aa alpha-Chain (RT1.AA)
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunoprecipitation (IP)

#### Product Details

Immunogen:	Rat spleen glycoproteins
Clone:	OX-18
Isotype:	IgG1
Purification:	Protein G affinity chromatography

#### Target Details

Target:	MHC Class I RT1.Aa alpha-Chain (RT1.AA)
Alternative Name:	MHC Class I (RT1Aa) ( <a href="#">RT1.AA Products</a> )
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 (44 kDa) with beta 2 microglobulin (11.5 kDa). The antigen is expressed by all

## Target Details

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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 class I histocompatibility antigen AA alpha chain

## Application Details

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**Application Notes:** Flow cytometry: use 10 µL of 1/50 - 1/100 diluted antibody to label 10<sup>6</sup> cells in 100 µL. (This product is routinely tested in flow cytometry on rat splenocytes). Immunohistochemistry on frozen sections: Acetone fixation is recommended - the antigen is sensitive to fixation with paraformaldehyde. Not suitable for immunohistochemistry on paraffin sections. ELISA. Immunoprecipitation. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. Further Comments: MRC OX-18 has been used in immunoaffinity purification of rat MHC class I molecules.

**Restrictions:** For Research Use only

## Handling

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**Concentration:** 1.0 mg/mL

**Buffer:** PBS, pH 7.4, containing 0.09 % sodium azide

**Preservative:** Sodium azide

**Precaution of Use:** This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C/-20 °C

**Storage Comment:** Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.

Shelf Life: one year from despatch.

**Expiry Date:** 12 months

## Publications

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**Product cited in:** Idborg, Zandian, Ossipova, Wigren, Preger, Mobarrez, Checa, Sohrabian, Pucholt, Sandling, Fernandes-Cerqueira, Rönnelid, Oke, Grosso, Kvarnström, Larsson, Wheelock, Syvänen,

Rönblom, Kultima et al.: "Circulating Levels of Interferon Regulatory Factor-5 Associates With Subgroups of Systemic Lupus Erythematosus Patients. ..." in: **Frontiers in immunology**, Vol. 10, pp. 1029, (2019) ([PubMed](#)).