

Product datasheet

Anti-MHC class I antibody [F21-2] (FITC) ab24881

★★★★★ 1 Abreviews 1 References 2 Images

Overview

Product name	Anti-MHC class I antibody [F21-2] (FITC)
Description	Mouse monoclonal [F21-2] to MHC class I (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Specificity	Monomorphic epitope on avian MHC Class I molecules
Tested applications	Suitable for: Flow Cyt, IP, WB, IHC-Fr
Species reactivity	Reacts with: Chicken, Turkey
Immunogen	The details of the immunogen for this antibody are not available.
Positive control	Chicken peripheral blood mononuclear cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: PBS
Purity	IgG fraction
Clonality	Monoclonal
Clone number	F21-2
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab24881** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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Application	Abreviews	Notes
Flow Cyt	★★★★★	Use 1µg for 10 ⁶ cells. ab106163 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 68 kDa.
IHC-Fr		Use at an assay dependent concentration.

Target

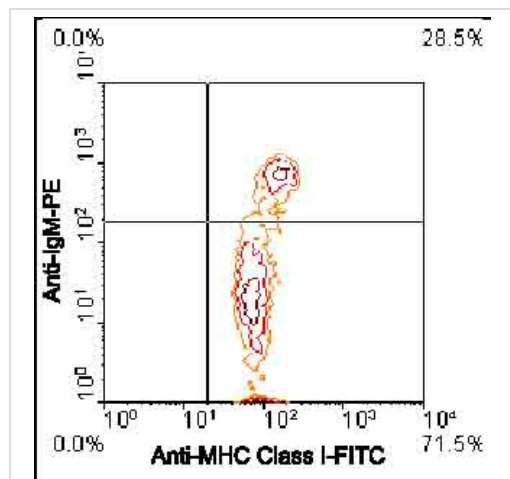
Relevance

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.

Cellular localization

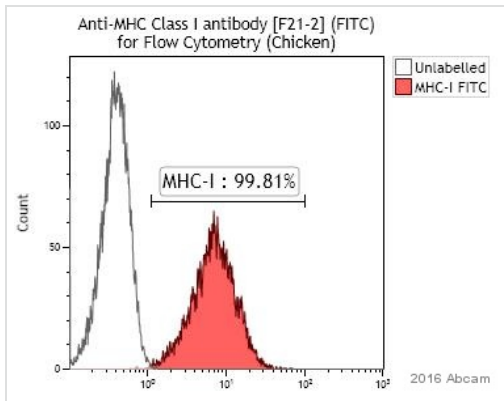
Cell Membrane; Type I membrane protein.

Images



Chicken peripheral blood mononuclear cells were double-stained with mouse anti-chicken MHC Class I-FITC and mouse anti-chicken IgM-PE. The small lymphocytes were then gated and analyzed on a FACScan flow cytometer

Flow Cytometry - Anti-MHC class I antibody [F21-2] (FITC) (ab24881)



Flow Cytometry - Anti-MHC class I antibody [F21-2] (FITC) (ab24881)

This image is courtesy of an Abreview by Waldo Medina.

ab24881 staining MHC class I antibody in chicken peripheral blood mononuclear cells (PBMC), purified by density gradient centrifugation in a PBS - FBS 10% - NaN₃ 0.1% buffer. The sample was incubated with the primary antibody for 30 minutes at 4°C. A secondary was not used.

Gating Strategy: SS vs FS.

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