

Product datasheet

Anti-MHC class I antibody [F21-2] (Phycoerythrin)
ab25429

Overview

Product name	Anti-MHC class I antibody [F21-2] (Phycoerythrin)
Description	Mouse monoclonal [F21-2] to MHC class I (Phycoerythrin)
Host species	Mouse
Conjugation	Phycoerythrin. Ex: 488nm, Em: 575nm
Tested applications	Suitable for: Flow Cyt, WB, IP
Species reactivity	Reacts with: Chicken, Turkey
Immunogen	The details of the immunogen for this antibody are not available.
Epitope	ab25429 reacts with a monomorphic epitope on avian MHC Class I molecules.
General notes	Like their mammalian counterparts, avian MHC Class I molecules (also known as B-F antigens) consist of a highly polymorphic alpha chain (Mr: 44 kDa) non covalently bound to the invariant beta 2 microglobulin subunit (Mr: 12 kDa). 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.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 16% Sucrose, PBS; Stabilizing agent
Purity	IgG fraction
Primary antibody notes	Like their mammalian counterparts, avian MHC Class I molecules (also known as B-F antigens) consist of a highly polymorphic alpha chain (Mr: 44 kDa) non covalently bound to the invariant beta 2 microglobulin subunit (Mr: 12 kDa). 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.
Clonality	Monoclonal
Clone number	F21-2
Isotype	IgG1

Light chain type

kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab25429** 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
Flow Cyt		Use 0.2µg for 10 ⁶ cells.
WB		Use at an assay dependent dilution. Predicted molecular weight: 41 kDa.
IP		Use at an assay dependent dilution.
AP		Use at an assay dependent dilution.

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.

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