abcam

Product datasheet

Anti-HLA-DP antibody [B7/21] - BSA and Azide free ab222780

1 Image

Overview

Product name	Anti-HLA-DP antibody [B7/21] - BSA and Azide free
Description	Mouse monoclonal [B7/21] to HLA-DP - BSA and Azide free
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	The details of the immunogen for this antibody are not available.
Positive control	IF/ICC: Raw 246.7 cells.
General notes	This antibody clone is manufactured by Abcam.
	This product is a PBS-only buffer formulated version of ab20897.
	If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com or you can find further information here.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	B7/21
Isotype	IgG3

Applications

Our Abpromise guarantee covers the use of **ab222780** in the following tested applications.

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

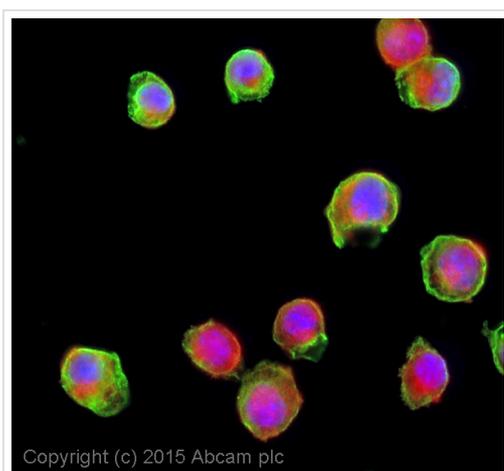| Application	Abreviews	Notes
Flow Cyt		Use 1µg for 10^6 cells.
ICC/IF		Use a concentration of 5 µg/ml.

Target

Relevance	HLA-DPA1 belongs to the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta (DPB) chain, both anchored in the membrane. It plays a vital role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (B lymphocytes, dendritic cells and macrophages). Within the DP molecule the alpha and beta chain contain the polymorphisms governing the peptide binding specificities, resulting in up to 4 different molecules.
Cellular localization	Type I membrane protein; Cell Membrane, Endoplasmic reticulum and Golgi Apparatus

Images

Immunocytochemistry/ Immunofluorescence - Anti-HLA-DP antibody [B7/21] - Azide free (ab222780)

The ICC/IF data shown was generated using the same antibody clone in a different buffer formulation (ab20897).

Raw 246.7 cells stained for HLA-DP (colored green) using ab20897 in ICC/IF. The cells were fixed with 4% formaldehyde (10 min) then permeabilized using 0.1% Triton X-100 in PBS buffer and then incubated in 1% bovine serum albumin (BSA) + 10% normal goat serum + 0.3 M glycine + 0.1% Tween-20 in PBS buffer for 1 hour to further permeabilize the cells and block non-specific protein-protein interactions. The cells were then incubated with the HLA-DP antibody ab20897 at 5 µg/ml overnight at +4°C. The secondary antibody (colored green) was Alexa Fluor® 488 goat anti-mouse (ab150117) IgG (H+L) preadsorbed, used at a 1/1000 dilution for 1 hour. Alexa Fluor® 594 WGA was used to label plasma membranes (colored red) at a 1/200 dilution for 1 hour at room temperature. DAPI was used to stain the cell nuclei (colored blue) at a concentration of 1.43 µM for 1 hour at room temperature.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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