abcam

Product datasheet

Anti-HLA Class I antibody [W6/32] - BSA and Azide free ab23755

Recombinant

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Overview

Product name	Anti-HLA Class I antibody [W6/32] - BSA and Azide free
Description	Mouse monoclonal [W6/32] to HLA Class I - BSA and Azide free
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt, ICC/IF, IHC-Fr
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus corresponding to Human HLA Class I. Membrane of human tonsil cells
Positive control	IHC-Fr: Human heart tissue. ICC/IF: HeLa cells. Flow Cyt: Jurkat cells.
General notes	This product has switched from a hybridoma to recombinant production method on 25th March 2024. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Primary antibody notes	The antibody recognises virtually all nucleated human cells, it is a valuable reagent for analysing variations in HLA class I expression in different disease states e.g. liver disease, muscular dystrophy, inflammatory myopathy and other neuromuscular disorders. This antibody is also suitable as a positive control for HLA tissue typing and crossmatching.

Clonality	Monoclonal
Clone number	W6/32
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab23755 in the following tested applications.

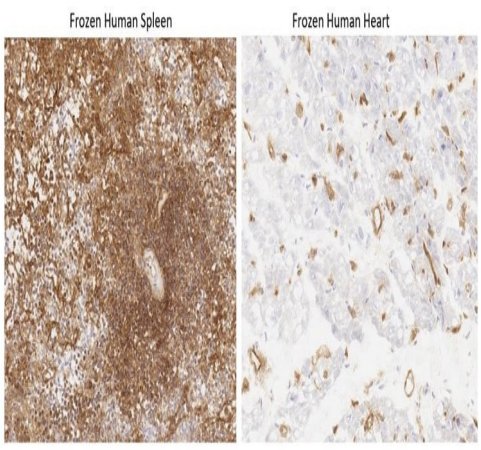
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt	★★★★★ (2)	Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.

Target

Relevance	HLA CLass I is involved in the presentation of foreign antigens to the immune system.
Cellular localization	Plasma membrane

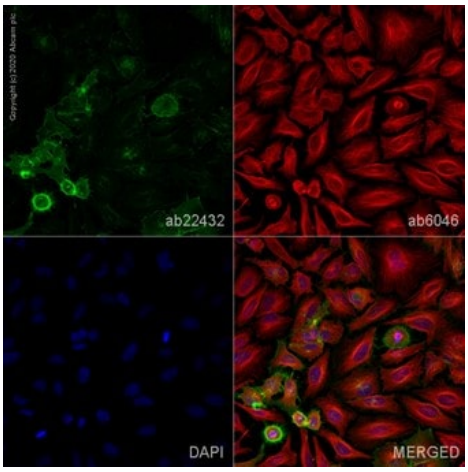
Images



Immunohistochemistry (Frozen sections) - Anti-HLA Class I antibody [W6/32] - BSA and Azide free (ab23755)

This data was developed using **ab22432**, the same antibody clone in a different buffer formulation.

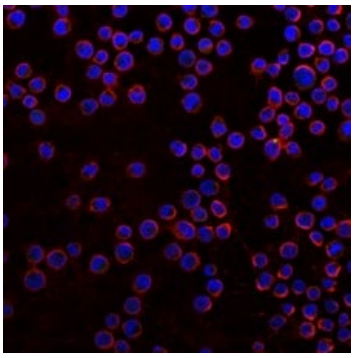
Immunohistochemical analysis of **ab22432** 10% paraformaldehyde fixed endothelial cells in frozen Human spleen tissue Human heart tissue labeling HLA Class I with **ab22432** at 0.05µg/ml. Detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunocytochemistry/ Immunofluorescence - Anti-HLA Class I antibody [W6/32] - BSA and Azide free (ab23755)

This data was developed using **ab22432**, the same antibody clone in a different buffer formulation.

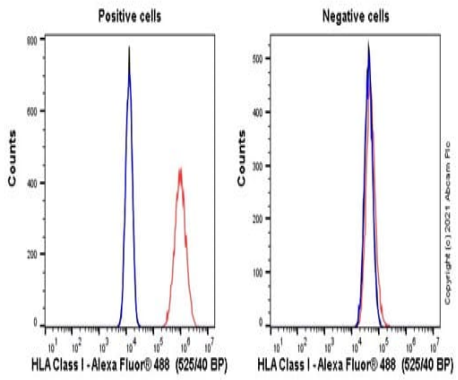
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% PBS-Tween permeabilized HeLa (human cervical adenocarcinoma epithelial cell) cells labelling HLA Class I with **ab22432** at 1µg/mL, blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with **ab92494** at 1µg/mL and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue). Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunocytochemistry/ Immunofluorescence - Anti-HLA Class I antibody [W6/32] - BSA and Azide free (ab23755)

This data was developed using **ab22432**, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% PBS-Tween permeabilized negative cell line K562 labelling HLA Class I with **ab22432** at 1µg/mL, blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with **ab227805** at 5µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue). Also suitable in cells fixed with 100% methanol (5 min). Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Flow Cytometry - Anti-HLA Class I antibody [W6/32] - BSA and Azide free (ab23755)

This data was developed using **ab22432**, the same antibody clone in a different buffer formulation.

Flow cytometry overlay histogram showing left Jurkat positive cells and right negative K562 cells stained with **ab22432** (red line). The cells were incubated in 1x PBS containing 10 % normal goat serum to block non-specific protein-protein interaction followed by the antibody (**ab22432**) ($1x10^6$ in 100 µl at 0.2 µg/ml) for 30 min on ice. The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor® 488, pre-adsorbed) (**ab150117**) was used at for 30 min on ice. Isotype control antibody (black line) was mouse IgG2aκ (**ab18413**) used at the same concentration and conditions as the primary antibody. Unlabeled sample (blue line) was also used as a control. Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.

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