

Anti-HLA Class I antibody [MEM-123] α b2217

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Overview

Product name	Anti-HLA Class I antibody [MEM-123]
Description	Mouse monoclonal [MEM-123] to HLA Class I
Host species	Mouse
Specificity	This antibody reacts with all human classical MHC Class I molecules in native cell-surface forms as well as with human HLA-G cDNA transfected cells. This antibody completely blocks the binding of pan MHC antibody (ab7855) but does not block binding of anti-HLA-G(ab7758/7904) to surface-expressed HLA-G.
Tested applications	Suitable for: ICC/IF, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to HLA Class I. COS-7 cells transfected with human CD48
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	MEM-123
Myeloma	unknown

Isotype

IgG3

Light chain type

unknown

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab2217 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
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use a concentration of 4 µg/ml. ab91537 - Mouse monoclonal IgG3, is suitable for use as an isotype control with this antibody.

Target

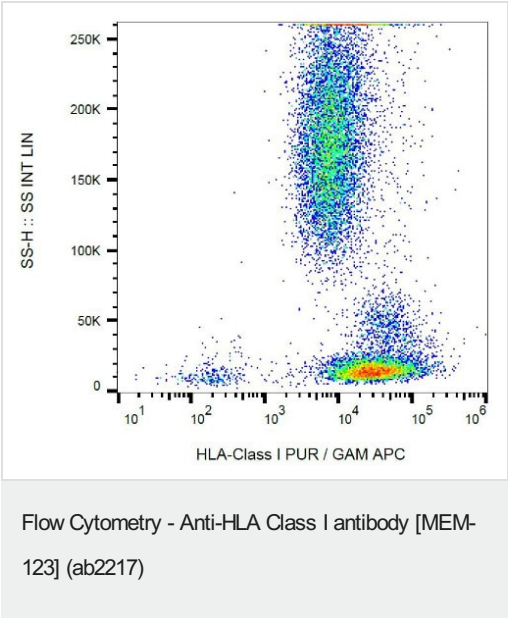
Relevance

HLA CLASS I is involved in the presentation of foreign antigens to the immune system.

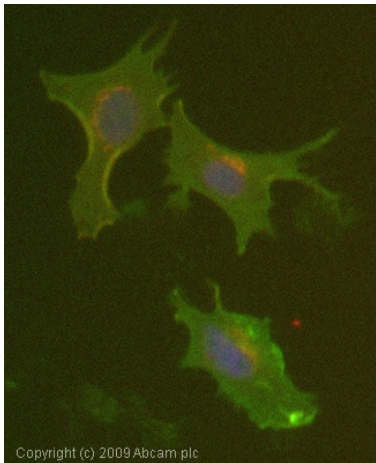
Cellular localization

Plasma membrane

Images



Flow Cytometry analysis of human peripheral blood cells labeling HLA Class I with Anti-HLA Class I antibody [MEM-123] (ab2217).



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Immunocytochemistry/ Immunofluorescence - Anti-HLA Class I antibody [MEM-123] (ab2217)

ICC/IF image of ab2217 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab2217, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Flow Cytometry - Anti-HLA Class I antibody [MEM-123] (ab2217)

Overlay histogram showing Jurkat cells stained with ab2217 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab2217, 0.5µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG3 [MG3-35] ([ab18394](#), 1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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

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