

Product datasheet

Anti-HLA G antibody [G233] ab52454

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Overview

Product name	Anti-HLA G antibody [G233]
Description	Mouse monoclonal [G233] to HLA G
Host species	Mouse
Specificity	ab52454 recognises several isoforms of HLA-G expressed in all populations of extravillous trophoblast (cell columns, interstitial trophoblast, endovascular trophoblast, placental bed giant cells). It does not cross-react with any other MHC Class I antigens (HLA-A, -B, -C, -E, -F).
Tested applications	Suitable for: Flow Cyt, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to Human HLA G. Murine L cells transfected with both human beta2-microglobulin and HLA-G
Positive control	Jeg3 cell line.
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
Purification notes	Purified from hybridoma culture supernatant. Purity >95% by SDS-PAGE.
Clonality	Monoclonal

Clone number G233
Isotype IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52454 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 a concentration of 1 - 4 µg/ml.
ICC/IF	★ ★ ★ ☆ ☆ (1)	Use a concentration of 10 µg/ml.

Target

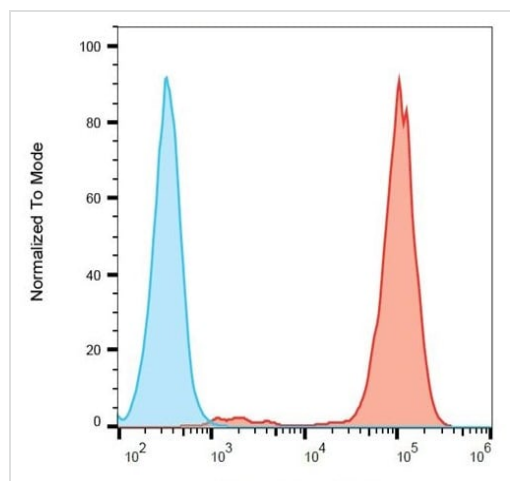
Function Involved in the presentation of foreign antigens to the immune system. Plays a role in maternal tolerance of the fetus by mediating protection from the deleterious effects of natural killer cells, cytotoxic T lymphocytes, macrophages and mononuclear cells.

Tissue specificity Expressed in trophoblasts.

Sequence similarities Belongs to the MHC class I family.
Contains 1 Ig-like C1-type (immunoglobulin-like) domain.

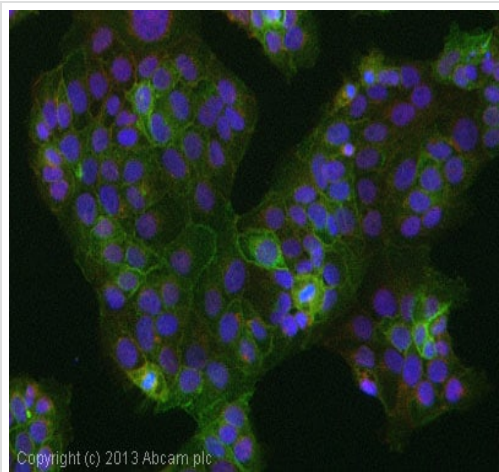
Cellular localization Membrane.

Images



Flow cytometry analysis (surface staining) of HLA-G in HLA-G transfectants using ab52454 purified / GAM-APC at 4 µg/ml. Blue - K562 cells. Red - HLA-G transfected LCL cells.

Flow Cytometry - Anti-HLA G antibody [G233]
(ab52454)



Immunocytochemistry/ Immunofluorescence - Anti-
HLA G antibody [G233] (ab52454)

ICC/IF image of ab52454 stained Jeg3 cells. The cells were 4% paraformaldehyde 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 (ab52454, 10µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96879**, DyLight® 488 goat anti-mouse IgG (H+L) used at a 1/250 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.

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

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