

Product datasheet

Anti-HLA G antibody [MEM-G/1] ab7759

★★★★☆ [3 Abreviews](#) [25 References](#) [4 Images](#)

Overview

Product name	Anti-HLA G antibody [MEM-G/1]
Description	Mouse monoclonal [MEM-G/1] to HLA G
Host species	Mouse
Specificity	The antibody reacts with denaturated HLA-G heavy chain.
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length denatured heavy chain (Human).
Positive control	IHC-P: First trimester placenta and pulmonary diseases. WB: ab29745 ; HeLa and JEG-3 cell lysates.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 24th January 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <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 TCS. Purity >95% by SDS-PAGE.

Clonality	Monoclonal
Clone number	MEM-G/1
Isotype	IgG1

Applications

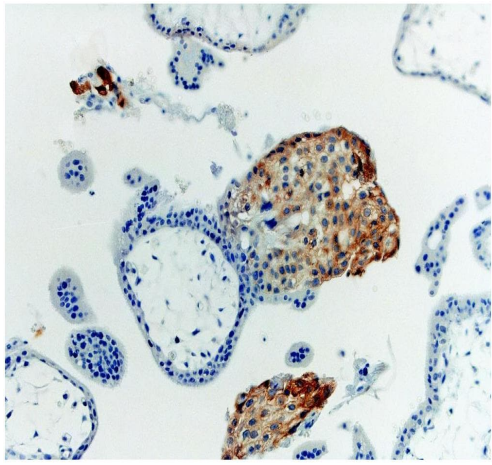
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab7759 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (1)	1/60 - 1/100. Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol.
WB	★★★★★ (1)	Use a concentration of 1 - 10 µg/ml. Predicted molecular weight: 38.2 kDa.

Target

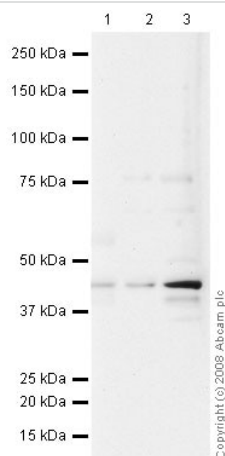
Function	Involved in the presentation of foreign antigens to the immune system. Plays a role in maternal tolerance of the fetus by mediating protection from the deleterious effects of natural killer cells, cytotoxic T lymphocytes, macrophages and mononuclear cells.
Tissue specificity	Expressed in trophoblasts.
Sequence similarities	Belongs to the MHC class I family. Contains 1 Ig-like C1-type (immunoglobulin-like) domain.
Cellular localization	Membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HLA G antibody [MEM-G/1] (ab7759)

Immunohistochemistry staining with ab7759 of first trimester placenta (paraffin-embedded sections).



Western blot - Anti-HLA G antibody [MEM-G/1] (ab7759)

All lanes : Anti-HLA G antibody [MEM-G/1] (ab7759) at 10 µg/ml

Lane 1 : Human placenta tissue lysate - total protein ([ab29745](#))

Lane 2 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 3 : JEG-3 (Human placental choriocarcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

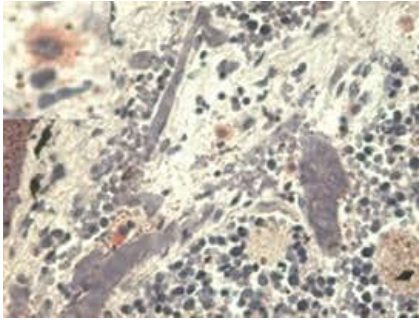
Secondary

All lanes : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Predicted band size: 38.2 kDa

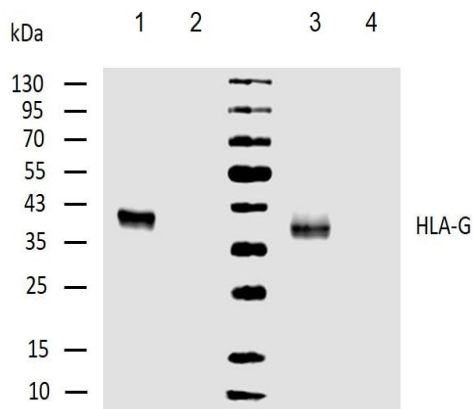
Observed band size: 42 kDa

Additional bands at: 38 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HLA G antibody [MEM-G/1] (ab7759)

The antibody ab7759 stains infiltrating macrophages in pulmonary diseases. In the top left corner see detail of macrophage.



Western blot - Anti-HLA G antibody [MEM-G/1] (ab7759)

All lanes : Anti-HLA G antibody [MEM-G/1] (ab7759) at 2 µg/ml

Lane 1 : JEG-3 cell line under reducing conditions.

Lane 2 : LNCap cell line under reducing conditions.

Lane 3 : JEG-3 cell line under non-reducing conditions.

Lane 4 : LNCap cell line under non-reducing conditions.

Secondary

All lanes : IRDye800-conjugated anti-mouse secondary antibody

Predicted band size: 38.2 kDa

Observed band size: 40 kDa

Western blotting analysis of human HLA-G using ab7759 on lysates of JEG-3 cell line and LNCaP cell line (negative control) under reducing and non-reducing conditions.

Nitrocellulose membrane was probed with 2 µg/ml of ab7759 followed by IRDye800-conjugated anti-mouse secondary antibody.

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