abcam

Product datasheet

Anti-HLA E antibody [MEM-E/02] ab2216

敲除验证

6 Abreviews 18 References 5 图像

概述

产品名称	Anti-HLA E抗体[MEM-E/02]
描述	小鼠单克隆抗体[MEM-E/02] to HLA E
宿主	Mouse
特异性	This antibody reacts with the denaturated heavy chain of human HLA-E. It does not cross-react with HLA-A, -B, -C or -G. Specifity of the antibody was confirmed on HLA-G/HLA-E Workshop(Victoria 2002).
经测试应用	**适用于:** Flow Cyt, WB, IHC-P
种属反应性	**与反应:** Human
免疫原	Recombinant full length protein corresponding to Human HLA E. Database link: **P13747**
阳性对照	WB: A549, THP-1 and Jurkat cell lysates. IHC-P: Human tonsil tissue. Flow Cyt: HL60 cells.
常规说明	This product has been changed from ascites to tissue culture supernatant. 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. 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. 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

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS

纯度	Protein A purified
纯化说明	Purified from TCS. Purity >95% by SDS-PAGE.
克隆	单克隆
克隆编号	MEM-E/02
骨髓瘤	unknown
同种型	IgG1
轻链类型	unknown

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab2216于以下的经测试应用**

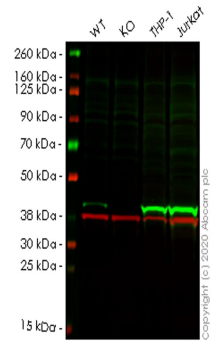
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt		Use 1µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB	★★★★☆ (4)	Use at an assay dependent concentration. Predicted molecular weight: 40 kDa.
IHC-P	★★☆☆☆ (1)	Use a concentration of 5 - 10 µg/ml.

靶标

相关性	HLA E belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. HLA E binds a restricted subset of peptides derived from the leader peptides of other class I molecules.
细胞定位	Membrane; Single-pass type I membrane protein

图片



Western blot - Anti-HLA E antibody [MEM-E/02] (ab2216)

All lanes : Anti-HLA E antibody [MEM-E/02] (ab2216) at 1/500 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : HLA-E knockout A549 cell lysate
Lane 3 : THP-1 cell lysate
Lane 4 : Jurkat cell lysate

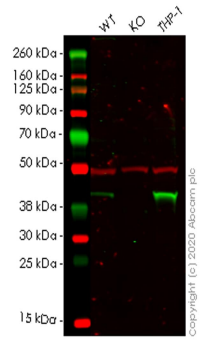
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) at 1/10000 dilution

Predicted band size: 40 kDa
Observed band size: 40 kDa

Lanes 1-4: Merged signal (red and green). Green - ab2216 observed at 40 kDa. Red - loading control **ab181602** observed at 36 kDa.

ab2216 Anti-HLA E antibody [MEM-E/02] was shown to specifically react with HLA E in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab267080** (knockout cell lysate **ab258452**) was used. Wild-type and HLA E knockout samples were subjected to SDS-PAGE. ab2216 and Anti-GAPDH antibody[EPR16891] - Loading Control (**ab181602**) were incubated at room temperature for 2.5 hours at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-HLA E antibody [MEM-E/02] (ab2216)

All lanes : Anti-HLA E antibody [MEM-E/02] (ab2216) at 1/500 dilution

Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : HLA-E knockout HEK-293T cell lysate
Lane 3 : THP-1 cell lysate

Lysates/proteins at 20 µg per lane.

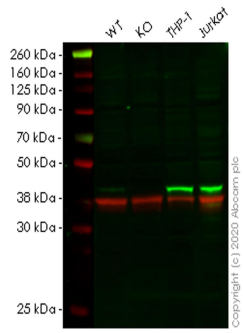
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 40 kDa

Lanes 1-3: Merged signal (red and green). Green - ab2216 observed at 40 kDa. Red - loading control **ab52901** observed at kDa.

ab2216 Anti-HLA E antibody [MEM-E/02] was shown to specifically react with HLA E in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab267231** (knockout cell lysate **ab258454**) was used. Wild-type and HLA E knockout samples were subjected to SDS-PAGE. ab2216 and Anti-beta Tubulin [EP1331Y] - Microtubule Marker (**ab52901**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-HLA E antibody [MEM-E/02] (ab2216)

All lanes : Anti-HLA E antibody [MEM-E/02] (ab2216) at 1/1000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : HLA-E knockout A549 cell lysate
Lane 3 : THP-1 cell lysate
Lane 4 : Jurkat cell lysate

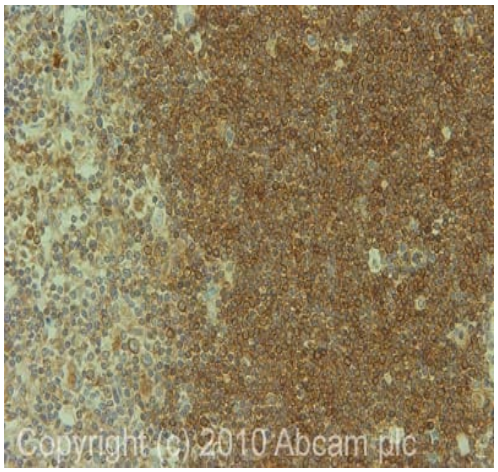
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) at 1/10000 dilution

Predicted band size: 40 kDa

Lanes 1-4: Merged signal (red and green). Green - ab2216 observed at 40 kDa. Red - loading control **ab181602** observed at 36 kDa.

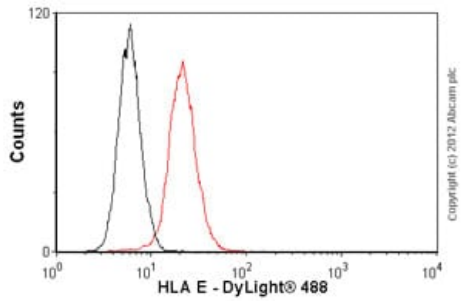
ab2216 Anti-HLA E antibody [MEM-E/02] was shown to specifically react with HLA E in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab267081** (knockout cell lysate **ab258453**) was used. Wild-type and HLA E knockout samples were subjected to SDS-PAGE. ab2216 and Anti-GAPDH antibody[EPR16891] - Loading Control (**ab181602**) were incubated at room temperature for 2.5 hours at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HLA E antibody [MEM-E/02] (ab2216)

IHC image of ab2216 staining in human tonsil formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab2216, 1µg/ml, for 15 mins at room temperature and 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.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Flow Cytometry - Anti-HLA E antibody [MEM-E/02] (ab2216)

Overlay histogram showing HL60 cells stained with ab2216 (red line). The cells were fixed with 80% methanol (5 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 (ab2216, 1 µg/1x10^6 cells for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was Mouse IgG1 [ICIGG1] (**ab91353**, 2 µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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