abcam

ab248588

Anti-HLA DMB antibody [EPR7981] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR7981
Purification technique	Affinity purification
Dissociation constant	7.4 x 10^{-11} M

Reactivity data

WB

Tested

Species	Transfected cell line - Human, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Transfected cell line - Human
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Transfected cell line - Human
Dilution info	-
Notes	-

Target data

See full target information HLA-DMB

Function	Plays a critical role in catalyzing the release of class II-associated invariant chain peptide (CLIP) from newly synthesized MHC class II molecules and freeing the peptide binding site for acquisition of antigenic peptides. In B-cells, the interaction between HLA-DM and MHC class II molecules is regulated by HLA-DO.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab248588 is the carrier-free version of ab133640.

Species reactivity

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

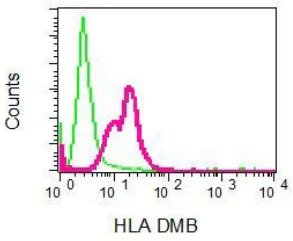
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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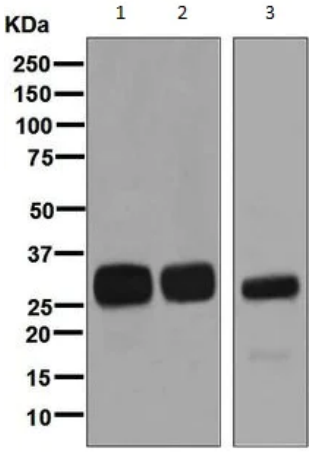
4 product images



Flow Cytometry (Intracellular) - Anti-HLA DMB antibody [EPR7981] - BSA and Azide free (ab248588)

HLA DMB Flow Cytometry (Intracellular) staining using rabbit Anti-HLA DMB antibody

This data was developed using ab133640, the same antibody clone in a different buffer formulation.
Intracellular Flow Cytometry analysis of permeabilized Raji cells labelling HLA DMB with ab133640 at 1/100 dilution (red). Rabbit IgG (negative control) shown in green.



Western blot - Anti-HLA DMB antibody [EPR7981] - BSA and Azide free (ab248588)

HLA DMB Western blot staining using rabbit Anti-HLA DMB antibody

This data was developed using ab133640, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-HLA DMB antibody [EPR7981] (ab133640) at 1/1000 dilution

Lane 1:
Raji lysate at 10 µg

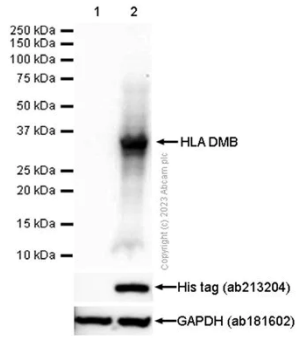
Lane 2:
Daudi lysate at 10 µg

Lane 3:
Human spleen lysate at 10 µg

Secondary

All lanes:
HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 29 kDa



Western blot - Anti-HLA DMB antibody [EPR7981] - BSA and Azide free (ab248588)

Blocking and diluting buffer and concentration: 5% NFDM/TBST. ab181602 was used as a loading control. This data was developed using ab133640, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-HLA DMB antibody [EPR7981] (ab133640) at 1/10000 dilution

Lane 1:
293T (Human embryonic kidney epithelial cell) whole cell lysate with blank vector transfected at 15 µg

Lane 2:
293T (Human embryonic kidney epithelial cell) whole cell lysate with His tagged HLA DMB expression vector transfected at 15 µg

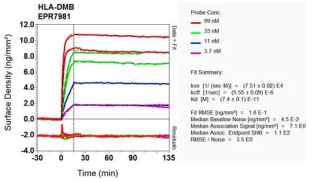
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 29 kDa

Observed band size: 29 kDa

Exposure time: 1s



OI-RD Scanning - Anti-HLA DMB antibody [EPR7981] - BSA and Azide free (ab248588)

We have systematically measured KD (the equilibrium dissociation constant between the antibody and its antigen), of more than 840 recombinant antibodies to assess not only their individual KD values but also to see the average affinity of antibody. Based on the comparison with published literature values for mouse monoclonal antibodies, Recombinant antibodies appear to be on average 1-2 order of magnitude higher affinity.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.