

Product datasheet

Anti-ULBP1 antibody [EPR7532(2)] ab176566

Recombinant **RabMAb**

[3 References](#) [4 Images](#)

Overview

Product name	Anti-ULBP1 antibody [EPR7532(2)]
Description	Rabbit monoclonal [EPR7532(2)] to ULBP1
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, Flow Cyt Unsuitable for: ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human ULBP1 aa 1-100. The exact sequence is proprietary. Database link: Q9BZM6
Positive control	Lysate from CHO cells transfected with ULBP1; HeLa, K562 and 293T cell lysates; K562 cells.
General notes	This antibody was developed as part of a collaboration project between Epitomics and Hugh Reyburn at the Centro Nacional de Biotecnología, Madrid. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

	supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7532(2)
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab176566 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

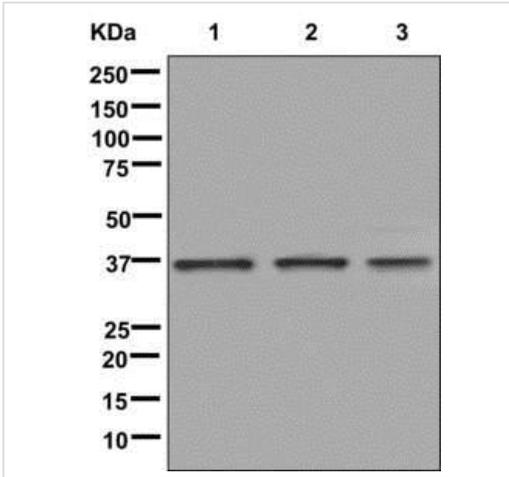
Application	Abreviews	Notes
Flow Cyt (Intra)		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 28 kDa.
Flow Cyt		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for ICC/IF, IHC-P or IP.

Target

Function	Ligand for the NKG2D receptor, together with at least ULBP2 and ULBP3. ULBPs activate multiple signaling pathways in primary NK cells, resulting in the production of cytokines and chemokines. Binding of ULBPs ligands to NKG2D induces calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. In CMV infected cells, interacts with soluble CMV glycoprotein UL16. The interaction with UL16 blocked the interaction with the NKG2D receptor, providing a mechanism by which CMV infected cells might escape the immune system. UL16 also causes ULBP1 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface.
Tissue specificity	Expressed in T-cells, B-cells, erythroleukemia cell lines and in a wide range of tissues including heart, brain, lung, liver, testis, lymph node, thymus, tonsil and bone marrow. Also found in fetal heart, brain, lung and liver.
Sequence similarities	Belongs to the MHC class I family.
Cellular localization	Cell membrane. Endoplasmic reticulum. Detected intracellularly in the endoplasmic reticulum of CMV-infected fibroblasts.

Images



Western blot - Anti-ULBP1 antibody [EPR7532(2)] (ab176566)

All lanes : Anti-ULBP1 antibody [EPR7532(2)] (ab176566) at 1/1000 dilution

- Lane 1** : HeLa cell lysate
- Lane 2** : K562 cell lysate
- Lane 3** : 293T cell lysate

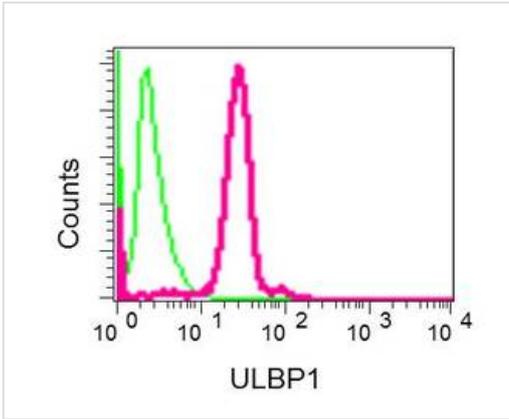
Lysates/proteins at 10 µg per lane.

Secondary

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

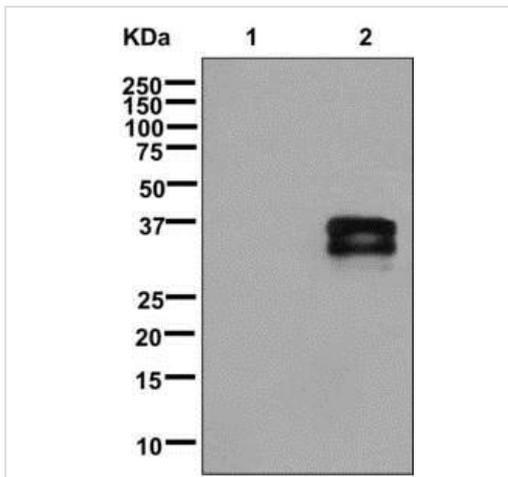
Developed using the ECL technique.

Predicted band size: 28 kDa



Flow Cytometry (Intracellular) - Anti-ULBP1 antibody [EPR7532(2)] (ab176566)

Flow cytometry analysis of permeabilized K562 cells labeling ULBP1 (red) with ab176566 at a 1/100 dilution, or negative control rabbit IgG (green)



Western blot - Anti-ULBP1 antibody [EPR7532(2)] (ab176566)

All lanes : Anti-ULBP1 antibody [EPR7532(2)] (ab176566) at 1/1000 dilution

Lane 1 : Lysate from CHO cells mock-transfected

Lane 2 : Lysate from CHO cells transfected with ULBP1

Lysates/proteins at 10 µg per lane.

Secondary

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

Developed using the ECL technique.

Predicted band size: 28 kDa

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

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

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