## Overview

**Product name**
Anti-MICA + MICB antibody [EPR6568]

**Description**
Rabbit monoclonal [EPR6568] to MICA + MICB

**Host species**
Rabbit

**Tested applications**
Suitable for: WB
Unsuitable for: ICC/IF or IHC-P

**Species reactivity**
Reacts with: Human

**Immunogen**
Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

**Positive control**
HeLa, A431, and MCF7 cell lysates

**General notes**
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 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.

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

## Properties

**Form**
Liquid

**Storage instructions**

**Storage buffer**
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.5% BSA

**Purity**
Protein A purified

**Clonality**
Monoclonal

**Clone number**
EPR6568
**Isotype**  
IgG

**Applications**

**The Abpromise guarantee**  
Our Abpromise guarantee covers the use of ab150355 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/1000 - 1/10000. Detects a band of approximately 43-70 kDa (predicted molecular weight: 42 kDa).</td>
</tr>
</tbody>
</table>

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

**Target**

**Function**  
Seems to have no role in antigen presentation. Acts as a stress-induced self-antigen that is recognized by gamma delta T-cells. Ligand for the KLRK1/NKG2D receptor. Binding to KLRK1 leads to cell lysis.

**Tissue specificity**  
Widely expressed with the exception of the central nervous system where it is absent. Expressed predominantly in gastric epithelium and also in monocytes, keratinocytes, endothelial cells, fibroblasts and in the outer layer of Hassal's corpuscles within the medulla of normal thymus. In skin, expressed mainly in the keratin layers, basal cells, ducts and follicles. Also expressed in many, but not all, epithelial tumors of lung, breast, kidney, ovary, prostate and colon. In thyomas, overexpressed in cortical and medullar epithelial cells. Tumors expressing MICA display increased levels of gamma delta T-cells.

**Involvement in disease**  
Anti-MICA antibodies and ligand shedding are involved in the progression of monoclonal gammopathy of undetermined significance (MGUS) to multiple myeloma.  
Psoriasis 1  
Psoriatic arthritis

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

**Post-translational modifications**  
N-glycosylated. Glycosylation is not essential for interaction with KLRK1/NKG2D but enhances complex formation.  
Proteolytically cleaved and released from the cell surface of tumor cells which impairs KLRK1/NKG2D expression and T-cell activation.

**Cellular localization**  
Cell membrane. Cytoplasm. Expressed on the cell surface in gastric epithelium, endothelial cells and fibroblasts and in the cytoplasm in keratinocytes and monocytes. Infection with human adenovirus 5 suppresses cell surface expression due to the adenoviral E3-19K protein which causes retention in the endoplasmic reticulum.

**Images**
**Western blot - Anti-MICA + MICB antibody [EPR6568] (ab150355)**

All lanes: Anti-MICA + MICB antibody [EPR6568] (ab150355) at 1/2000 dilution

Lane 1: His-tagged human MICA recombinant protein, aa24-308
Lane 2: His and Fc tagged human MICB recombinant protein, aa1-298

Lysates/proteins at 0.001 µg per lane.

**Secondary**

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

Predicted band size: 42 kDa
Observed band size: 100,60 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

Exposure: 3 seconds (Lane 1), 10 seconds (Lane 2).

Anti-MICA + MICB antibody [EPR6568] (ab150355) at 1/1000 dilution (purified) + A431 (Human epidermoid carcinoma epithelial cell) whole cell lysates at 15 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 42 kDa

Blocking and diluting buffer: 5% NFDM/TBST
Anti-MICA + MICB antibody [EPR6568] (ab150355) at 1/1000 dilution (purified) + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates at 15 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size**: 42 kDa

Blocking and diluting buffer : 5% NFDM/TBST

**All lanes**: Anti-MICA + MICB antibody [EPR6568] (ab150355) at 1/1000 dilution (unpurified)

**Lane 1**: HeLa cell lysate
**Lane 2**: A431 cell lysate
**Lane 3**: MCF7 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

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

**Predicted band size**: 42 kDa

**Observed band size**: 43-70 kDa
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors