Product datasheet

Anti-MICA + MICB antibody ab203679

Overview

**Product name**
Anti-MICA + MICB antibody

**Description**
Rabbit polyclonal to MICA + MICB

**Host species**
Rabbit

**Tested applications**
Suitable for: IHC-P, WB

**Species reactivity**
Reacts with: Human

**Immunogen**
Synthetic peptide within Human MICA + MICB conjugated to Keyhole Limpet Haemocyanin (KLH). The exact sequence is proprietary. Derived from MICB protein.

Database link: Q29980

**Positive control**
Human lung carcinoma tissue.

Properties

**Form**
Liquid

**Storage instructions**

**Storage buffer**
Preservative: 0.09% Sodium azide
Constituents: 50% Glycerol, 1% BSA

**Purity**
Protein A purified

**Clonality**
Polyclonal

**Isotype**
IgG

Applications

Our Abpromise guarantee covers the use of ab203679 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tr>
<td>IHC-P</td>
<td>1/100 - 1/500. (or 1/50 - 1/200 if using a fluorescent secondary antibody)</td>
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**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 thymomas, 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**
Immunohistochemical analysis of formalin-fixed paraffin-embedded Human lung carcinoma tissue labeling MICA + MICB with ab203679 at 1/200 dilution, followed by conjugation to the secondary antibody and DAB staining.

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