

## Product datasheet

# Anti-MICB antibody [3C37] ab196549

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-MICB antibody [3C37]   |
| <b>Description</b>         | Mouse monoclonal [3C37] to MICB   |
| <b>Host species</b>        | Mouse   |
| <b>Tested applications</b> | <b>Suitable for:</b> Flow Cyt, WB   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Recombinant fragment corresponding to Human MICB aa 23-307. (NP_005922.2).<br>Database link: <a href="#">Q29980</a> |

### Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | 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. |
| <b>Storage buffer</b>       | Constituent: 100% PBS   |
| <b>Purity</b>               | Protein G purified  |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | 3C37  |
| <b>Isotype</b>              | IgG2  |

### Applications

Our [Abpromise guarantee](#) covers the use of **ab196549** 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    |           | Use at an assay dependent concentration.                                     |
| WB          |           | Use at an assay dependent concentration. Predicted molecular weight: 43 kDa. |

### Target

|   |  |
|---|--|
| <b>Function</b>                         | 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.   |
| <b>Tissue specificity</b>               | Widely expressed with the exception of the central nervous system where it is absent. Expressed in many, but not all, epithelial tumors of lung, breast, kidney, ovary, prostate and colon. In hepatocellular carcinomas, expressed in tumor cells but not in surrounding non-cancerous tissue.  |
| <b>Involvement in disease</b>           | Genetic variations in MICA are a cause of susceptibility to rheumatoid arthritis (RA) [MIM:180300]. It is a systemic inflammatory disease with autoimmune features and a complex genetic component. It primarily affects the joints and is characterized by inflammatory changes in the synovial membranes and articular structures, widespread fibrinoid degeneration of the collagen fibers in mesenchymal tissues, and by atrophy and rarefaction of bony structures.<br>Note=The MICB*004 allele is associated with rheumatoid arthritis.<br>Note=Genetic variation in MICB is associated with cytomegalovirus and herpes simplex virus I seropositivity and this may be associated with schizophrenia risk. |
| <b>Sequence similarities</b>            | Belongs to the MHC class I family. MIC subfamily.<br>Contains 1 Ig-like C1-type (immunoglobulin-like) domain.  |
| <b>Post-translational modifications</b> | Proteolytically cleaved and released from the cell surface of tumor cells.   |
| <b>Cellular localization</b>            | Cell membrane. Binding to human cytomegalovirus glycoprotein UL16 causes sequestration in the endoplasmic reticulum.   |

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