Datasheet: MCA2403

| Description: | MOUSE ANTI HUMAN MICA/MICB |
| Specificity: | MICA/MICB |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | 6D4 |
| Isotype: | IgG2a |
| Quantity: | 0.2 mg |

Product Details

| RRID | AB_620222 |

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>1/50 - 1/200</td>
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<td>Immunohistology - Frozen</td>
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<td>1/100</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Human

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide

Carrier Free

Yes

Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

MICA transfected C1R cells.
Spleen cells from immunised RBF/DnJ mice were fused with cells of the P3 mouse myeloma cell line.

**Specificity**

**Mouse anti Human MICA/Micb antibody, clone 6D4** recognizes non-classical MHC class I chain A (MICA) and non-classical MHC class I chain MICB (MICB).

MICA and MICB are stress inducible antigens, which are closely related and appear functionally indistinguishable. MICA and MICB are ligands for NKG2D, an activating receptor on most natural killer (NK) cells, CD8 T cells and gamma delta T cells.

MICA is principally expressed on intestinal epithelium, and several epithelial tumors. Expression may be induced to high surface levels by heat shock, oxidative stress, and virus infection.

Clone 6D4 is reported to inhibit the cytotoxicity of NK cells stimulated by IFN alpha-treated dendritic cells (Jinushi et al. 2003).

**Flow Cytometry**

Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.

**References**

I-related chain a and B expression in thyroid cancer. *J Clin Endocrinol Metab.* 91: 2704-12.


**Storage**

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of despatch.

**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:


**Regulatory**

For research purposes only

**Recommended Products**

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG IgA IgM (STAR87...) *Alk. Phos., HRP*
- Goat Anti Mouse IgG (STAR77...) *HRP*
- Rabbit Anti Mouse IgG (STAR12...) *RPE*
- Rabbit Anti Mouse IgG (STAR8...) *DyLight®800*
- Rabbit Anti Mouse IgG (STAR13...) *HRP*
- Goat Anti Mouse IgG (STAR76...) *RPE*
- Goat Anti Mouse IgG (STAR70...) *FITC*
- Goat Anti Mouse IgG (Fc) (STAR120...) *FITC, HRP*
- Rabbit Anti Mouse IgG (STAR9...) *FITC*
- Human Anti Mouse IgG2a (HCA037...) *FITC, HRP*
- Goat Anti Mouse IgG (H/L) (STAR117...) *Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP*

**Recommended Negative Controls**

**MOUSE IgG2a NEGATIVE CONTROL (MCA929)**

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