

For Research Use Only

# Biotin Anti-Human MICA/MICB (6D4)

Catalog Number: Biotin-65161



## Basic Information

### Catalog Number:

Biotin-65161

### Size:

100ug , 500 ug/ml

### Source:

Mouse

### Isotype:

IgG2a, kappa

### GenBank Accession Number:

BC016929

### GeneID (NCBI):

100507436

### UNIPROT ID:

Q29983

### Full Name:

MHC class I polypeptide-related sequence A

### Calculated MW:

383 aa, 43 kDa

### Purification Method:

The purified antibody is conjugated with biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.

### CloneNo.:

6D4

### Recommended Dilutions:

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, FC

### Species Specificity:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

IHC : human tonsillitis tissue, human colon tissue

## Background Information

Human MHC class I chain-related genes located within the HLA class I region of chromosome 6 encode MHC class I chain-related A and B (MICA and MICB) (PMID: 11429322). MICA and MICB are stress-inducible surface molecules that are not associated with  $\beta$ 2-microglobulin and do not present peptides (PMID: 9497295). They are expressed in intestinal epithelium and many epithelial tumors (PMID: 10359807). MICA and MICB are ligands for NKG2D which is an activating receptor that is expressed on most natural killer (NK) cells, CD8  $\alpha\beta$  T cells, and  $\gamma\delta$  T cells (PMID: 10426993; 11491531). The monoclonal antibody 6D4 recognizes MICA and MICB.

## Storage

### Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.09% sodium azide.

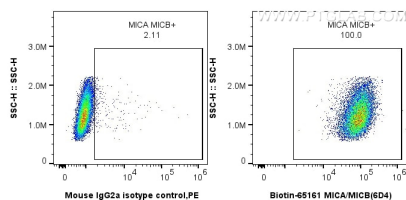
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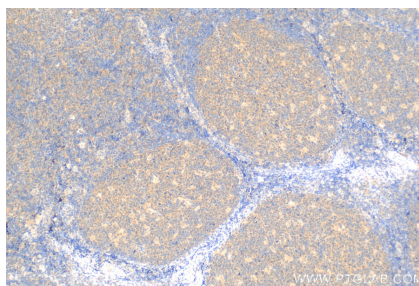
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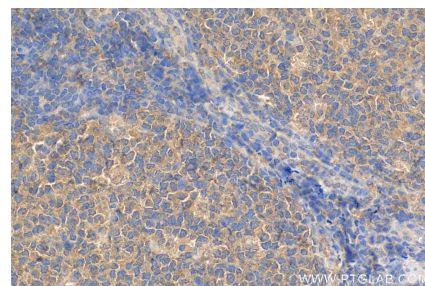
## Selected Validation Data



1x10<sup>6</sup> HeLa cells were surface stained with 0.5 ug Biotin Anti-Human MICA/MICB (6D4) (Biotin-65161, Clone:6D4) or isotype control, and SA-PE. Cells were not fixed.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using Biotin-65161 (MICA/MICB antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using Biotin-65161 (MICA/MICB antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).