

For Research Use Only

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

Catalog Number: Biotin-65161



## Basic Information

**Catalog Number:**

Biotin-65161

**Size:**

100ug, 1 mg/ml

**Source:**

Mouse

**Isotype:**

IgG2a, kappa

**GenBank Accession Number:**

BC016929

**GeneID (NCBI):**

4276

**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

**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 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 0.1% sodium azide.

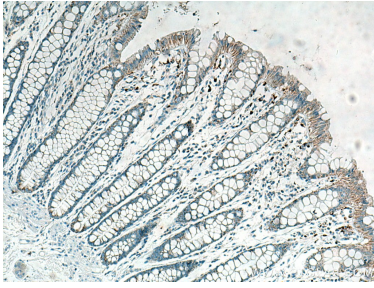
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

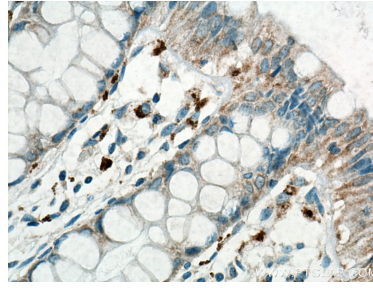
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using Biotin-65161 (MICA/MICB antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using Biotin-65161 (MICA/MICB antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).