

Anti-MICB Picoband Antibody
Catalog # ABO12299**Specification**

Anti-MICB Picoband Antibody - Product Information

Application	WB
Primary Accession	Q29980
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for MHC class I polypeptide-related sequence B(MICB) detection.
Tested with WB in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MICB Picoband Antibody - Additional Information

Gene ID 4277

Other Names

MHC class I polypeptide-related sequence B, MIC-B, MICB {ECO:0000312|EMBL:CAA62823.1}

Calculated MW

42646 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Cell membrane ; Single-pass type I membrane protein . Binding to human cytomegalovirus glycoprotein UL16 causes sequestration in the endoplasmic reticulum. .

Tissue Specificity

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. .

Protein Name

MHC class I polypeptide-related sequence B

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human MICB (23-48aa AEPHSLRYNLMVLSQDESVQSGFLAE).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the MHC class I family. MIC subfamily.

Anti-MICB Picoband Antibody - Protein Information

Name MICB {ECO:0000312|EMBL:CAA62823.1}

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.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q29983}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q29983} Note=Binding to human cytomegalovirus glycoprotein UL16 causes sequestration in the endoplasmic reticulum {ECO:0000250|UniProtKB:Q29983, ECO:0000269|PubMed:12782710}

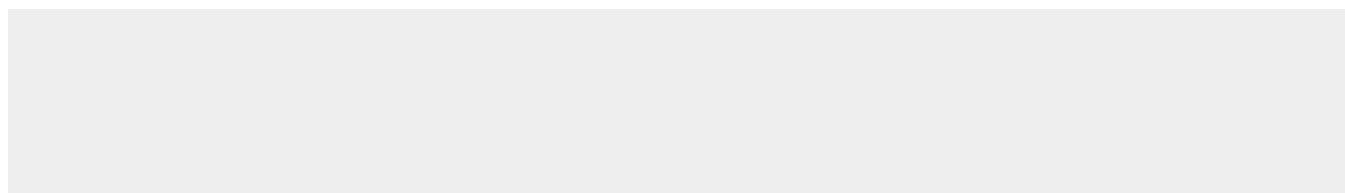
Tissue Location

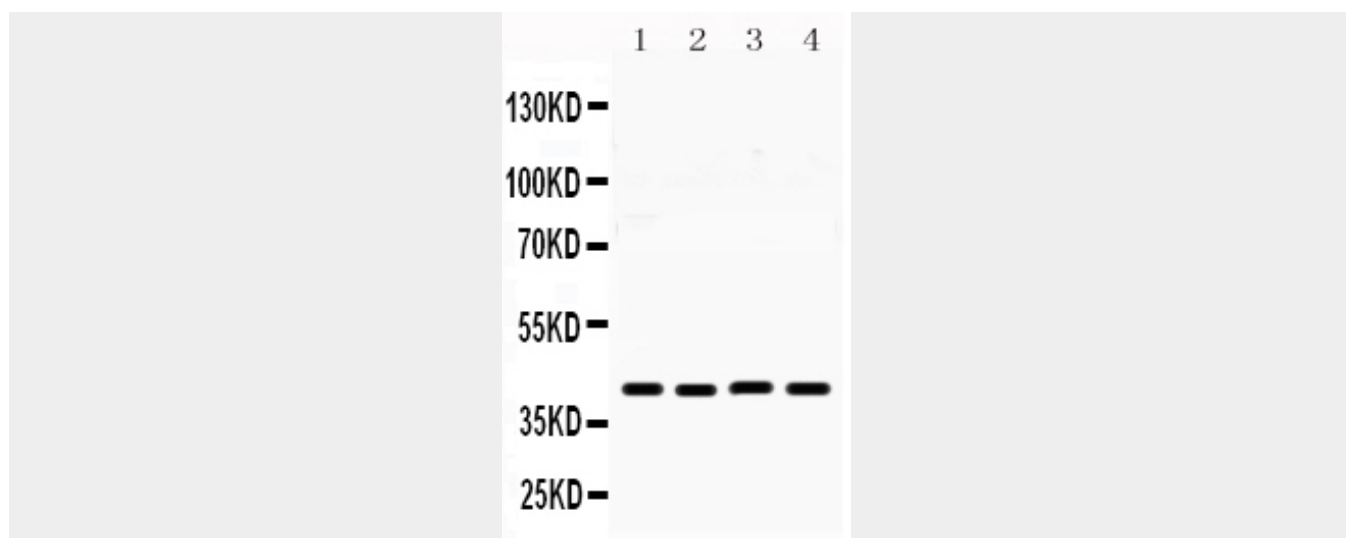
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Anti-MICB Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MICB Picoband Antibody - Images



Anti- MICB Picoband antibody, ABO12299, Western blotting All lanes: Anti MICB (ABO12299) at 0.5ug/ml
Lane 1: Rat Testis Tissue Lysate at 50ug
Lane 2: SW620 Whole Cell Lysate at 40ug
Lane 3: A549 Whole Cell Lysate at 40ug
Lane 4: 22RV1 Whole Cell Lysate at 40ug
Predicted bind size: 43KD
Observed bind size: 43KD

Anti-MICB Picoband Antibody - Background

MHC class I polypeptide-related sequence B is a protein that in humans is encoded by the MICB gene. This gene encodes a heavily glycosylated protein which is a ligand for the NKG2D type II receptor. Binding of the ligand activates the cytolytic response of natural killer (NK) cells, CD8 alphabeta T cells, and gammadelta T cells which express the receptor. This protein is stress-induced and is similar to MHC class I molecules; however, it does not associate with beta-2-microglobulin or bind peptides. Alternative splicing results in multiple transcript variants.