MICB Rabbit pAb

CatalogNo: YT6215

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human	• IHC,IF,WB

MW	Isotype
• 42kD (Observed)	• IgG

Recommended Dilution Ratios

IHC 1:50-200
WB 1:500-2000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human MICB
Specificity	This antibody detects endogenous levels of human MICB

Target Information

Gene name	MICB PERB11.2

Protein Name MICB

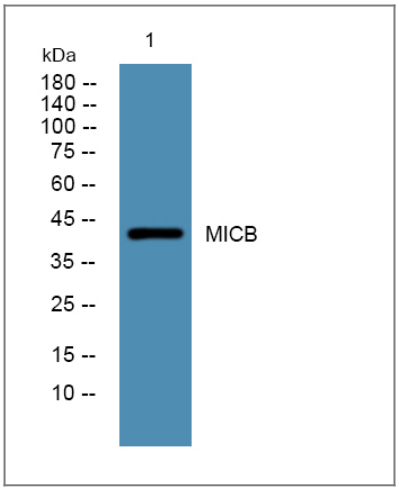
Organism	Gene ID	UniProt ID
Human	4277;	Q29980;

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

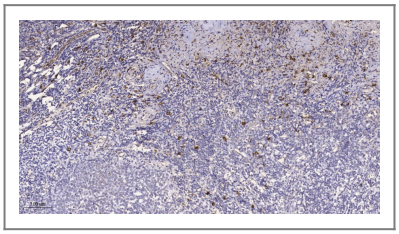
Tissue specificity Widely expressed with the exception of the central nervous system where it is absent. Expressed in many, but not all, epithelial tumors of lung, breast, kidney, ovary, prostate and colon. In hepatocellular carcinomas, expressed in tumor cells but not in surrounding non-cancerous tissue.

Function Disease:Genetic variation in MICB is associated with cytomegalovirus and herpes simplex virus I seropositivity and this may be associated with schizophrenia risk.,Disease:The MICA*004 allele is associated with susceptibility to rheumatoid arthritis [MIM:180300]. Rheumatoid arthritis is a complex, multifactorial disorder. It is one of the most common autoimmune diseases and it is characterized by inflammation of synovial tissue and joint destruction.,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.,induction:By heat shock, oxidative stress, retinoic acid, IFN-alpha and the DNA methyltransferase inhibitor 5-aza-2'-deoxycytidine. Induction by IFN-alpha is impaired in patients with chronic hepatitis C virus infection. Down-regulated by human cytomegalovirus UL112 microRNA during viral infection which leads to decreased binding of KLRK1/NKG2D and reduced killing by natural killer cells.,polymorphism:The following alleles of MICB are known: MICB*001, MICB*002, MICB*003, MICB*004, MICB*005, MICB*006, MICB*007, MICB*008, MICB*009N, MICB*010, MICB*011, MICB*012, MICB*013, MICB*014, MICB*015, MICB*016, MICB*018, MICB*019, MICB*020, MICB*021N and MICB*022. MICB*009N and MICB*021N are null alleles which are not expressed. The sequence shown is that of MICB*001.,PTM:Proteolytically cleaved and released from the cell surface of tumor cells.,similarity:Belongs to the MHC class I family. MIC subfamily.,similarity:Contains 1 Ig-like C1-type (immunoglobulin-like) domain.,subcellular location:Binding to human cytomegalovirus glycoprotein UL16 causes sequestration in the endoplasmic reticulum.,subunit:Unlike classical MHC class I molecules, does not form a heterodimer with beta-2-microglobulin. Binds as a monomer to a KLRK1/NKG2D homodimer. KLRK1 forms a complex with HCST/DAP10 in which KLRK1 binds MICB while HCST acts as an adapter molecule which enables signal transduction. Receptor-ligand interaction induces clustering of both proteins in ordered structures called immune synapses and also leads to their intercellular transfer. This is associated with a reduction in the cytotoxicity of KLRK1-expressing cells. Binds to human cytomegalovirus glycoprotein UL16 which causes sequestration of MICB in the endoplasmic reticulum and increases resistance to KLRK1-mediated cytotoxicity.,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.,

Validation Data



Western blot analysis of lysates from Jurkat cells, primary antibody was diluted at 1:1000, 4°over night



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).

Contact information

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