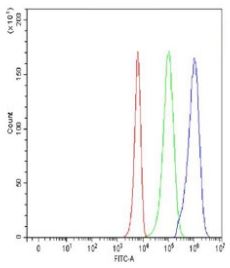
MICB Antibody / MHC class I polypeptide-related sequence B (R32254)

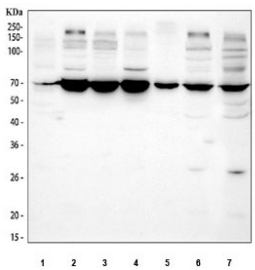
Catalog No.	Formulation	Size
R32254	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q29980
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This MICB antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human K562 cells with MICB antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MICB antibody.



Western blot testing of 1) human Jurkat, 2) human K562, 3) human HEL, 4) human A431, 5) human 293T, 6) human SiHa and 7) mouse HEPA1/6 cell lysate with MICB antibody. Predicted molecular weight ~43 kDa but may be observed at higher molecular weights due to glycosylation.

Description

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 alpha-beta T cells, and gamma-delta 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.

Application Notes

Optimal dilution of the MICB antibody should be determined by the researcher.

Immunogen

Amino acids AEPHSLRYNLMVLSQDESVQSGFLAE of human MICB were used as the immunogen for the MICB antibody.

Storage

After reconstitution, the MICB antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.