For Research Use Only

Anti-Human MICA/MICB Rabbit Recombinant Antibody

Catalog Number:98110-1-RR

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Basic Information

Catalog Number:
98110-1-RR

Size:
100ug , 1000 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
AAH16929.1

GeneID (NCBI):
4276

Full Name:
MHC class I polypeptide-related sequence A

Calculated MW:
43 kDa

Purification Method:
Protein A purfication

CloneNo.:
240735D5

Applications

Tested Applications:
FC

Species Specificity:
human

Background Information

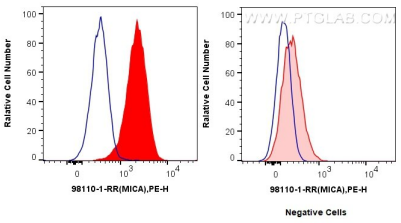
Human MHC class I chain-related genes located within the HLA class I region of chromosome 6 encode MHC class I chain-related A and B (MICA and MICB) (PMID: 11429322). MICA and MICB are stress-inducible surface molecules that are not associated with β2-microglobulin and do not present peptides (PMID: 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 αβ T cells, and γ δ T cells (PMID: 10426993; 11491531). This antibody recognizes both MICA and MICB.

Storage

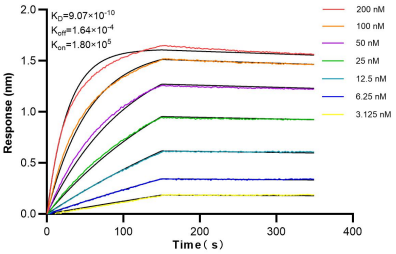
Storage:
Store at 2 - 8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH 7.3.

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

Selected Validation Data



1x10^6 HeLa cells (left) or Jurkat cells (right) were surface stained with 0.25 ug Anti-Human MICA/MICB Rabbit Recombinant Antibody (98110-1-RR, Clone: 240735D5) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were not fixed.



Biolayer interferometry (BLI) kinetic assays of 98110-1-RR against Human MICA were performed. The affinity constant is 0.907 nM.