Genomeditech (Shanghai) Co.,Ltd.
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Anti-MICA/MICB hIgG1 Antibody(36 NF G236A)

Product information

GM-48843AB-10	10 μg
GM-48843AB-100	100 μg
GM-48843AB-1000	1 mg

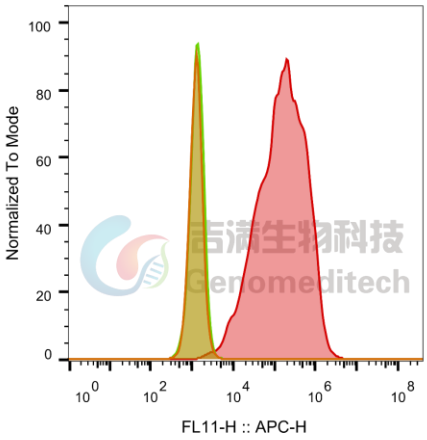
Antibody Information

Species Reactivity	Human
Clone	36 NF G236A
Source/Isotype	Monoclonal Human IgG1 /κ
Application	Flow Cytometry
Specificity	Detects MICA and MICB.
Gene	MICA and MICB
Other Names	MIC-A,PERB11.1; PERB11.2
Gene ID	MICA: 100507436(human) MICB: 4277(human)
Background	MHC class I polypeptide–related sequence A (MICA) is a highly polymorphic cell surface glycoprotein encoded by the MICA gene located within MHC locus. MICA is related to MHC class I and it has similar domain structure; however, it is not associated with β2-microglobulin nor binds peptides as conventional MHC class I molecules do MICA rather functions as a stress-induced ligand (as a danger signal) for integral membrane protein receptor NKG2D ("natural-killer group 2, member D"). MHC class I polypeptide-related sequence B (MICB) is a protein that is encoded by the MICB gene located within MHC locus. MICB is related to MHC class I and has similar domain structure, which is made up of external α1α2α3 domain, transmembrane segment and C-terminal cytoplasmic tail. MICB is a stress-induced ligand for NKG2D receptor. The heat shock stress pathway is involved in the regulation of MICB expression as transcription of MICB is regulated by promoter heat shock element
Storage	Store at 2-8℃ short term (1-2 weeks).Store at ≤ -20℃ long term.Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Data Examples

Flow cytometry

The recommended usage range is 0.5-4 μg per test. H_MICA*001 CHO-K1 Cell Line (Catalog # GM-C22346) was stained with Anti-MICA/MICB hIgG1 Antibody (Catalog # GM-48843AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

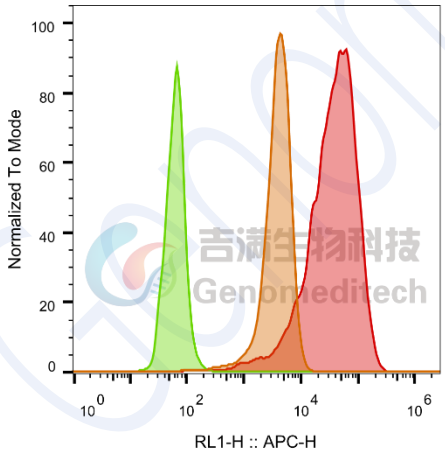


	SampleID	Geometric Mean : FL11-H
	CHO-K1 anti-MICA/MICB+APC-2nd Ab	1269
	CHO-K1 H_MICA*001 H_IgG+APC-2nd Ab	1343
	CHO-K1 H_MICA*001 anti-MICA/MICB+APC-2nd Ab	143847

Fig 1. FACS

Flow cytometry

The recommended usage range is 0.5-4 μg per test. H_MICA HEK-293 Cell Line (Catalog # GM-C24921) was stained with Anti-MICA/MICB hIgG1 Antibody (Catalog # GM-48843AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



	SampleID	Geometric Mean : RL1-H
	HEK-293 anti-MICA/MICB+APC-2nd Ab	3704
	HEK-293 H_MICA H_IgG+APC-2nd Ab	63.2
	HEK-293 H_MICA anti-MICA/MICB+APC-2nd Ab	32586

Fig 2. FACS

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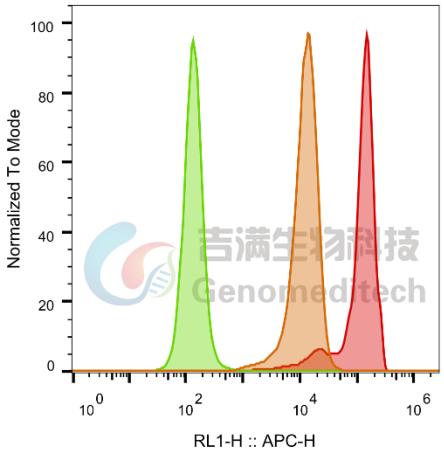
Flow cytometry	The recommended usage range is 0.5-4 μg per test. H_MICB HEK-293 Cell Line (Catalog # GM-C24872) was stained with Anti-MICA/MICB hIgG1 Antibody (Catalog # GM-48843AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



	SampleID	Geometric Mean : RL1-H
■	HEK-293 anti-MICA/MICB+APC-2nd Ab	11811
■	HEK-293 H_MICB H_IgG+APC-2nd Ab	136
■	HEK-293 H_MICB anti-MICA/MICB+APC-2nd Ab	104795

Fig 3. FACS