

Technical Data Sheet

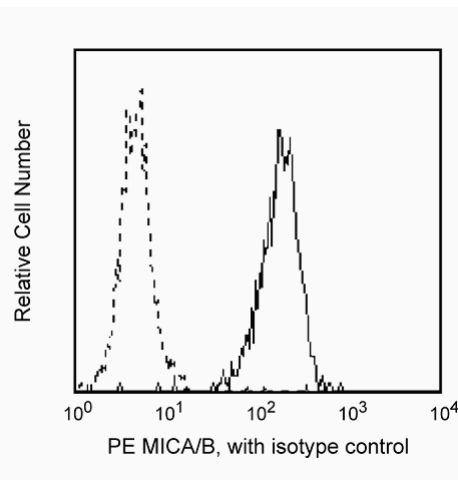
PE Mouse Anti-Human MIC A/B

Product Information

Material Number:	558352
Size:	100 tests
Vol. per Test:	20 µl
Clone:	6D4
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Monoclonal antibody 6D4 reacts with MIC A/B, homologs of the major histocompatibility complex class I. They are molecules of approximately 70 kDa, normally expressed in gut epithelium but can be induced in other epithelial cells by stress. MICA and MICB have functional and structural similarities and are the ligands for NKG2D, an activating receptor on most NK cells. Studies have shown expression of MICA and MICB in epithelial cell in transplanted kidney and pancreas showing histological signs of rejection and or cellular injury, suggesting their potential role in transplant immunopathology. It has also been suggested that IFN γ induces the upregulation of MIC A/B on cancer cells (hepatocellular carcinoma) rendering them more susceptible to NK cell cytotoxicity.



Profile of anti-MIC A/B (6D4) reactivity on HeLa cells analyzed by flow cytometry

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555574	PE Mouse IgG2a, κ Isotype Control	100 tests	G155-178

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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- Steinle A, Li P, Morris DL, et al. Interactions of human NKG2D with its ligands MICA, MICB, and homologs of the mouse RAE-1 protein family. *Immunogenetics*. 2001; 53(4):279-287.(Biology)