

Product datasheet for **AM01181LE-N**

MICA (+ MICB) Mouse Monoclonal Antibody [Clone ID: 6D4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6D4
Applications:	FC, FN, IHC, IP
Recommended Dilution:	Immunoprecipitation. Functional Assays. Flow Cytometry: Use 10µl of the suggested working dilution to label 1x10 ⁶ cells in 100µl. Immunohistochemistry on frozen sections: 1/100.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	MICA transfected C1R cells. Spleen cells from immunised RBF/DnJ mice were fused with cells of the P3 mouse myeloma cell line.
Specificity:	This antibody is specific for nonclassical MHC class I chain A (MICA) and nonclassical MHC class I chain MICB (MICB).
Formulation:	PBS, pH 7.4 State: Low Endotoxin State: Liquid purified Ig
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	MHC class I polypeptide-related sequence A
Database Link:	Entrez Gene 100507436 Human Q29983



[View online »](#)

Background:

MICA and MICB are stress inducible antigens, which are closely related and appear functionally indistinguishable. MICA and MICB are ligands for NKG2D, an activating receptor on most natural killer (NK) cells, CD8 T cells and gamma delta T cells. MICA is principally expressed on intestinal epithelium, and several epithelial tumours. Expression may be induced to high surface levels by heat shock, oxidative stress, and virus infection. Clone 6D4 is reported to inhibit the cytotoxicity of NK cells stimulated by IFN alpha-treated dendritic cells.

Synonyms:

MHC class I polypeptide-related sequence A, MIC-A, PERB11.1

Note:

Endotoxin Level: less than 0.01 EU/mg