



Anti-MICA polyclonal antibody [Biotin] (DPABY-581)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	MHC class I chain-related genes MICA and MICB are transmembrane glycoproteins that function as ligands for human NKG2D. The two proteins are highly related, sharing 85% amino acid identity, but are also polymorphic. Recognition of MICA or MICB by NKG2D results in the activation of NK cell cytolytic activity and/or cytokine production. MICA/B are minimally expressed on normal cells, but are frequently expressed on or shed from epithelial tumors and can be induced by bacterial and viral infections. MICA and MICB recognition is involved in tumor surveillance, viral infections, and autoimmune diseases.
Specificity	Detects human MICA in ELISAs and Western blots. In sandwich immunoassays, less than 0.2% cross reactivity with recombinant human (rh) MICB and rhMIC1 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human MICA. Ala22-Gln308 Accession Number NP_001170990
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, Immunohistochemistry, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.

Preservative	None
Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70 °C as supplied.</p> <p>1 month, 2 to 8 °C under sterile conditions after reconstitution.</p> <p>6 months, -20 to -70 °C under sterile conditions after reconstitution.</p>

GENE INFORMATION

Gene Name	MICA MHC class I polypeptide-related sequence A [Homo sapiens (human)]
Official Symbol	MICA
Synonyms	MICA; MHC class I polypeptide-related sequence A; MIC-A; PERB11.1; HLA class I antigen; stress inducible class I homolog; MHC class I chain-related protein A;
Entrez Gene ID	100507436
Protein Refseq	NP_000238
UniProt ID	Q29983
Chromosome Location	6p21.33
Pathway	Allograft Rejection; Natural killer cell mediated cytotoxicity;
Function	NOT beta-2-microglobulin binding; natural killer cell lectin-like receptor binding; protein binding;