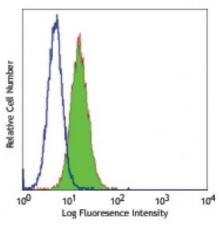
SONY

Product Data Sheet

Alexa Fluor[®] 488 anti-human MICA/MICB

Catalog # / Size:	2204560 / 100 tests
Clone:	6D4
Isotype:	Mouse IgG2a, к
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific



Human Hela cell line stained with 6D4 Alexa Fluor® 488

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* Alexa Fluor $^{ m I\!R}$ 488 has a maximum emission of 519 nm when it is excited at 488 nm.
Application Notes:	Additional reported (for the relevant formats) applications include: immunohistochemistry ^{2,3,5} of acetone-fixed frozen sections and formalin-fixed paraffin-embedded tissue sections, immunoprecipitation ⁷ , and blocking ^{2,3} of MIC mediated cytotoxicity. The LEAF [™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 320910).
Application References:	 Groh V, <i>et al.</i> 1999. <i>Science</i> 279:1737. Groh V, <i>et al.</i> 1999. <i>Proc. Natl. Acad. Sci. USA.</i> 96:6879. Groh V, <i>et al.</i> 2001. <i>Nature Immunol.</i> 2:255. Li Z, <i>et al.</i> 2000. <i>Immunogenetics</i> 51:246. Park EJ, <i>et al.</i> 2003. <i>J. Immunol.</i> 171:4131. Jinushi M, <i>et al.</i> 2003. <i>J. Immunol.</i> 171:5423. Wu J, <i>et al.</i> 2003. <i>J. Immunol.</i> 170:4196. Okita R, <i>et al.</i> 2012. <i>J Immunol.</i> 188:2136. <u>PubMed.</u> Mo C, <i>et al.</i> 2012. <i>J Biol Chem.</i> 287:19242. <u>PubMed.</u>
Description:	6D4 antibody reacts with a common epitope of the human nonclassical MHC class I chain-related protein A (MICA) and B (MICB), also known as PERB11.1 and PERB11.2. The MIC gene is located in MHC class I region. MICA/B are 65-75 kD stress-inducible glycoproteins with highly polymorphic. They are MHC class I-like transmembrane molecules that do not associate β 2-microglobulin and do not present peptides. MICA and MICB share 85% identify, and are mainly expressed on Intestinal epithelial cells, epithelial tumor cells, endothelial cells, fibroblasts,

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com and IFN- α -stimulated dendritic cells. MIC molecules bind NKG2D, an activating receptor, and induce activation of NK cells, and subset of CD8+ α/β T cells and γ/δ T cells, as well as suppression of T cell proliferation. MICA/B recognition is involved in the regulation of tumor surveillance, viral infection and autoimmune diseases. The 6D4 antibody is able to block MIC mediated cytotoxicity.

 Antigen
 1. Groh V, et al. 1996. Proc. Natl. Acad. Sci. USA. 93:12445.

 References:
 2. Groh V, et al. 1999. Proc. Natl. Acad. Sci. USA. 96:6879.

 3. Jinushi M, et al. 2003. J. Immunol. 170:1249.
 4. Kriegeskorte AK, et

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