

BAMOMAB

Human soluble MICA ELISA Kit

Antigen:	Soluble human MICA (MHC-class I-related chain A)
Catalog Number:	MICA-EK-200
Applications:	Detection of soluble MICA in serum and cell culture supernatants
Capture antibody (1 vial):	
Clone:	AMO1 (mouse IgG1, kappa)
Concentration:	1 mg/ml
Formulation:	0.1mg in 0.1 ml phosphate-buffered saline, pH 7.4, no sodium azide
Storage:	Store at 4°C. For long-term storage freezing at -20°C is recommended.
Detection antibody (1 vial):	
Clone:	BAM03 (mouse IgG2a, kappa)
Concentration:	0.2 mg/ml
Formulation:	0.02 mg in 0.1 ml phosphate-buffered saline, pH 7.4, no sodium azide
Storage:	Store at 4°C. For long-term storage freezing at -20°C is recommended.
Standard (1 vial):	recombinant soluble MICA*04 (purified from E.coli)
Concentration:	100 ng/ml
Formulation:	20 ng in 0.2 ml phosphate-buffered saline, 5% bovine serum albumin, pH 7.4
Storage:	Store at -20°C. Use aliquots after thawing within 1-2 weeks.
Usage:	See attached ELISA instruction sheet.
Description:	MICA (MHC class I-related chain A) is a polymorphic, human MHC-encoded cell surface glycoprotein and ligand of the activating C-type lectin-like immunoreceptor NKG2D [1-5]. NKG2D engagement of MICA activates NK cells and costimulates CD8 T cells [3,6]. MICA is expressed on gastrointestinal epithelium and inducible by cell stress, viral and bacterial infection [2,6-8]. MICA is also expressed by malignant epithelial and haematopoietic cells, and MICA expression has been shown to enhance tumor rejection in vivo [9-12]. Tumor cells shed soluble MICA which is detectable in sera of patients with epithelial and haematopoietic malignancies and may counteract tumor immunosurveillance [10,13-15].
Conditions:	For research use only. Not for use in diagnostic or therapeutic procedures. BAMOMAB is not responsible for any patent infringements caused by the use of this product.
Country of Origin:	Germany
Literature:	<ol style="list-style-type: none">1. Bahram S et al. <i>Proc Natl Acad Sci USA</i> 91, 6259-6263 (1994).2. Groh V et al. <i>Proc Natl Acad Sci USA</i> 93, 12445-12450 (1996).3. Bauer S et al. <i>Science</i> 285, 727-729 (1999).4. Steinle A et al. <i>Immunogenetics</i> 53, 279-287 (2001).5. Li P et al. <i>Nat Immunol</i> 2, 443-451 (2001).6. Groh V et al. <i>Nat Immunol</i> 2, 255-260 (2001).7. Spies T <i>Proc Natl Acad Sci USA</i> 99, 2584-2586 (2002).8. Welte S et al. <i>Eur J Immunol</i> 33, 194-203 (2003).9. Groh V et al. <i>Proc Natl Acad Sci USA</i> 96, 6879-6884 (1999).10. Salih HR et al. <i>Blood</i> 102, 1389-1396 (2003).11. Friese MA et al. <i>Cancer Res</i> 63, 8996-9006 (2003).12. Wiemann K et al. <i>J Immunol</i> 175, 720-729 (2005).13. Salih HR et al. <i>J Immunol</i> 169, 4098-4102 (2002).14. Groh V et al. <i>Nature</i> 419, 734-738 (2002).15. Holdenrieder S et al. <i>Int J Cancer</i> 118, 684-687 (2006).