

Cynomolgus MICA Protein; His Tag

Product Information

Product Name Cynomolgus MICA Protein; His Tag

Storage temp Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt.

Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size GM-88379RP-100 / 100 μg

GM-88379RP-1000 / 1 mg

Protein Information

Alternative Names MIC-A, PERB11.1

Source Cynomolgus MICA Protein; His Tag (GM-88379RP) is expressed from human 293 cells (HEK-293). It contains Glu 1 - Trp 284 (Accession # AAO24115.1). This protein carries a His tag at the C-terminus.

Purity > 95% as determined by SDS-PAGE

Endotoxin < 1 EU/ μg , determined by LAL gel clotting assay

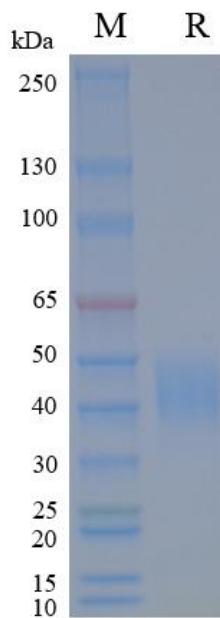
Predicted Mol Mass 33.3 KDa

Formulation Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.

Description MICA (MIC-A, PERB11.1) is a MHC class I-related chain protein encoded by the MICA gene on chromosome 6. It is a stress-induced ligand for the NKG2D receptor on NK cells and some T cells. MICA is upregulated by cellular stress, infection, or transformation; surface MICA can be shed or trafficked intracellularly. MICA–NKG2D binding activates NK cell cytotoxicity and cytokine production, contributing to immune and tumor surveillance.

Signaling centers on the NKG2D–DAP10/DAP12 complex, transmitting signals via PI3K–AKT and MAPK pathways. NKG2D engagement triggers NK degranulation, perforin/granzyme release, and target lysis, and can modulate T cell responses and dendritic cell cross-talk. Dysregulated MICA expression or shedding is linked to cancer, viral infections, and autoimmunity, making MICA a target for immunotherapy and biomarkers.

SDS-PAGE

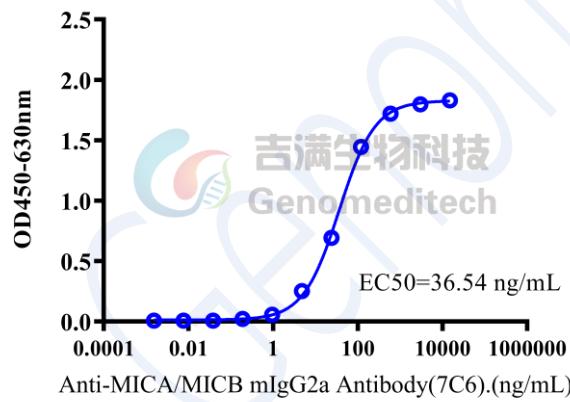


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

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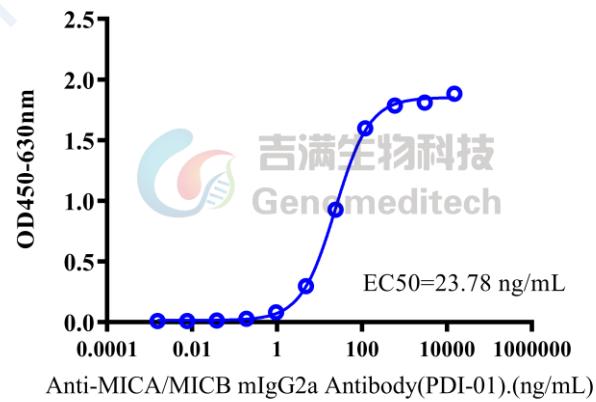
0.2 µg Cynomolgus MICA Protein; His Tag of per well



Cynomolgus MICA Protein; His Tag (Catalog # GM-88379RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-MICA/MICB mIgG2a Antibody(7C6) (Catalog # GM-51336AB) were added.

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0.2 µg Cynomolgus MICA Protein; His Tag of per well



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