Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825
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Human MICA*008 Protein, His Tag (Q96QC4)

Product Information

Product Name	Human MICA*008 Protein, His Tag (Q96QC4)
Storage temp	Store at ≤ -70℃, 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-88376RP-100 / 100 μg** **GM-88376RP-1000 / 1 mg**

Protein Information

Alternative Names	MIC-A, MHC class I chain-related protein A
Source	Human MICA*008 Protein, His Tag (Q96QC4) (GM-88376RP) is expressed from human 293 cells (HEK-293). It contains AA Glu 24 - Gln 308 (Accession # Q96QC4). 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	33.7 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	MICA (MHC class I chain-related protein A) is a stress-induced ligand of the activating receptor NKG2D, mainly expressed on epithelial and tumor cells under stress (e.g., infection or transformation). It is a non-classical MHC I–like molecule located in the human MHC region, with multiple alleles and isoforms. Unlike classical MHC molecules, MICA does not present peptides; instead, surface MICA engages NKG2D on NK cells and some T cells to trigger cytotoxic responses and cytokine production. MICA signals mainly through the activating receptor NKG2D, promoting NK cell cytotoxicity and co-stimulating certain T cell responses. NKG2D engagement activates downstream pathways via adaptors such as DAP10, recruiting PI3K and other signaling molecules to drive cytotoxic granule release, cytokine production, and target-cell lysis. MICA–NKG2D signaling can also influence macrophages and γδ T cells. Soluble MICA shed from the cell surface can dampen or alter immune responses, contributing to tumor immune evasion. Stress, inflammation, and proteolytic shedding shape the net effect on immune surveillance.

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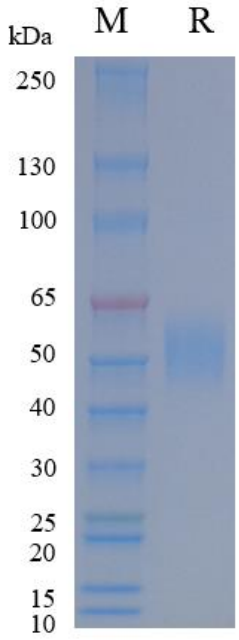
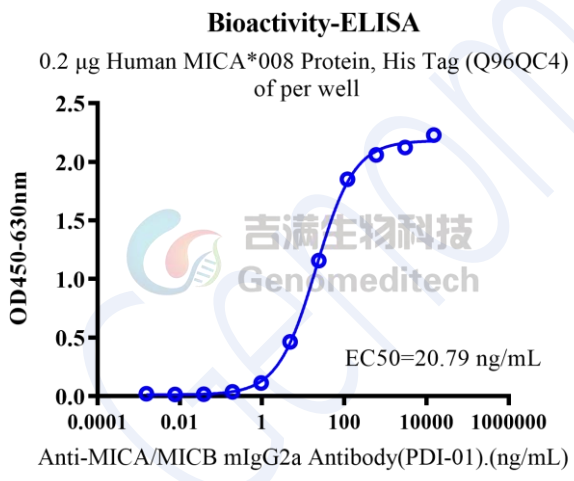
SDS-PAGE

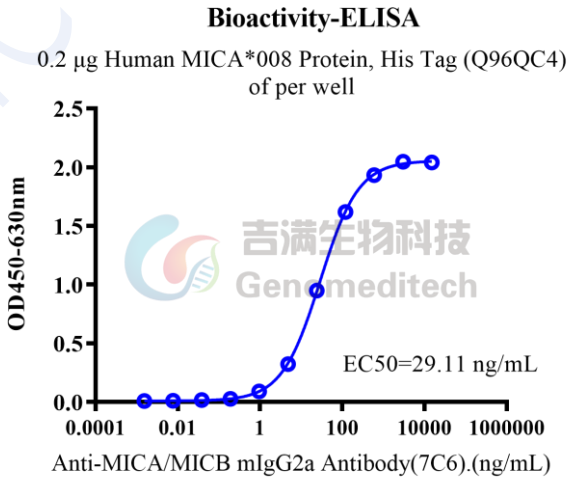


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

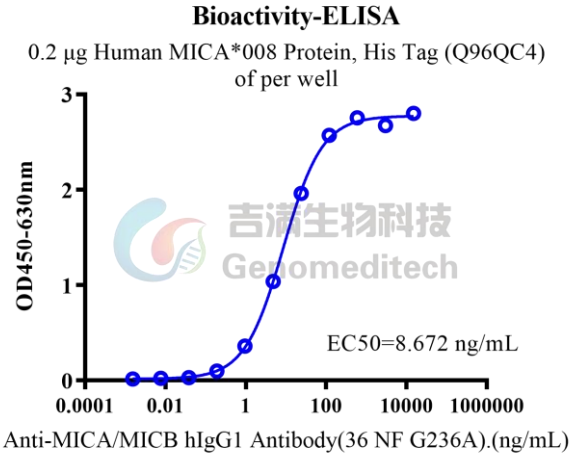
Bioactivity-ELISA



Human MICA*008 Protein, His Tag (Q96QC4) (Catalog # GM-88376RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-MICA/MICB mIgG2a Antibody(PDI-01) (Catalog # GM-52540AB) were added.



Human MICA*008 Protein, His Tag (Q96QC4) (Catalog # GM-88376RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-MICA/MICB mIgG2a Antibody(7C6) (Catalog # GM-51336AB) were added.



Human MICA*008 Protein, His Tag (Q96QC4) (Catalog # GM-88376RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-MICA/MICB hIgG1 Antibody(36 NF G236A) (Catalog # GM-48843AB) were added.