Human MICA Protein

Cat. No. MIC-HM20A

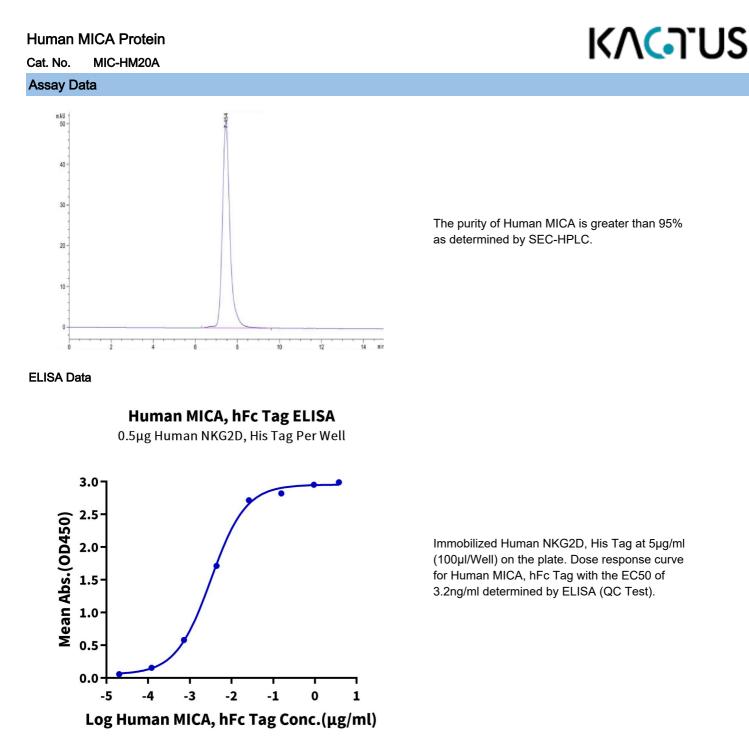
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Description	
Source	Recombinant Human MICA Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Glu24-Gln308.
Accession	Q96QC4
Molecular Weight	The protein has a predicted MW of 59.64 kDa. Due to glycosylation, the protein migrates to 75-85 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and S	Storage
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before Iyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	MICA (MHC class I chain-related gene A) is a transmembrane glycoprotein that functions as a ligand for human NKG2D. A closely related protein, MICB, shares 85% amino acid identity with MICA. These proteins are distantly related to the MHC class I proteins. They possess three extracellular Iglike domains, but they have no capacity to bind peptide or interact with beta 2-microglobulin
Assay Data	

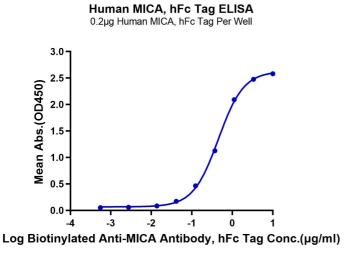
Bis-Tris PAGE



Human MICA on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.







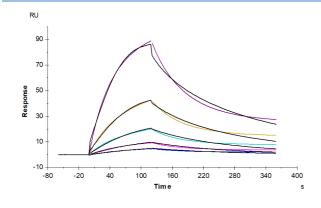
Immobilized Human MICA, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-MICA Antibody, hFc Tag with the EC50 of 0.45µg/ml determined by ELISA.

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Human MICA, hFc Tag captured on CM5 Chip via Protein A can bind Human NKG2D, His Tag with an affinity constant of 0.36 μ M as determined in SPR assay (Biacore T200).