

Human Ly6K Protein

Cat. No. LTK-HM201



Description

Source	Recombinant Human Ly6K Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus.
	It contains Asp18-Gly138.
Accession	Q17RY6-1
Molecular Weight	The protein has a predicted MW of 40.12 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

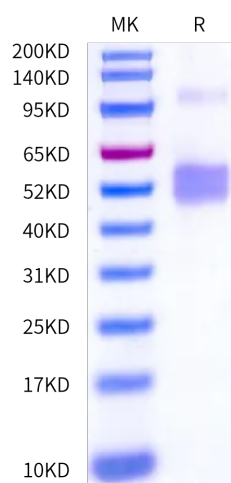
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Lymphocyte antigen 6 complex locus K (LY6K), a glycosylphosphatidylinositol-anchored protein, plays a dynamic role in cancer metastasis. LY6K is expressed in testicular cells and assists fertilization by facilitating the migration of spermatozoa toward the oviduct. Additionally, LY6K is also expressed in human cancer cells and is, therefore, one of the cancer/testis antigens (CTA). Furthermore, the deficiency of LY6K suppresses transforming growth factor β (TGF β) signaling and thereby Smad1/5 and Smad2/3 signal transduction.

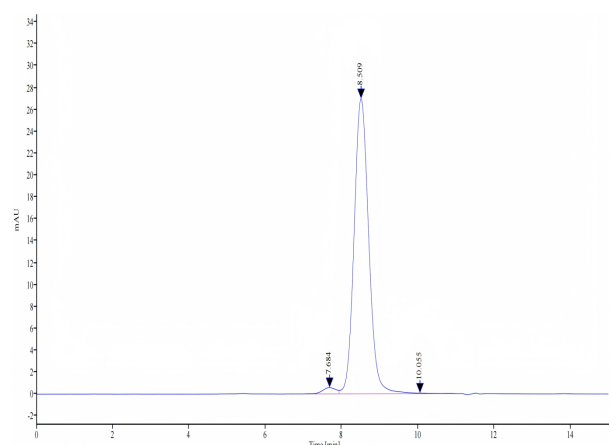
Assay Data

Bis-Tris PAGE



Human Ly6K on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



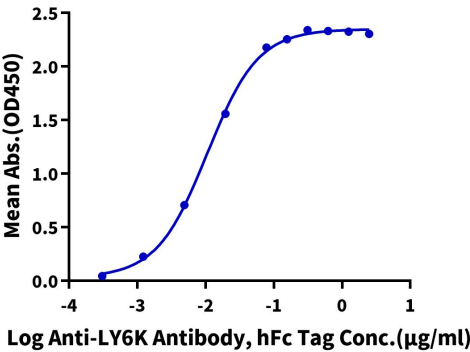
The purity of Human Ly6K is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human Ly6K, hFc Tag ELISA

0.05µg Human Ly6K, hFc Tag Per Well



Immobilized Human Ly6K, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-LY6K Antibody, hFc Tag with the EC50 of 10.6ng/ml determined by ELISA.