

Rhesus macaque Kallikrein 2/KLK2 Protein

Cat. No. KLK-CM102



Description

Source	Recombinant Rhesus macaque Kallikrein 2/KLK2 Protein is expressed from HEK293 with His tag at the C-terminus.
Accession	XP_014980161.3
Molecular Weight	The protein has a predicted MW of 27.63 kDa. Due to glycosylation, the protein migrates to 28-35 kDa under Non-reduced condition based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

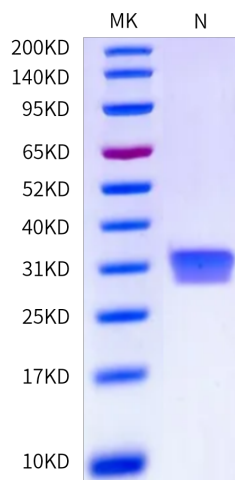
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM Tris, 150mM NaCl, 8% trehalose, 0.05% Brij-35, 5mM Benzamidine (pH 7.5).
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Kallikrein-related peptidase 2 (KLK2) is a serine protease exhibiting antiangiogenic properties through proteolytic activity. KLK2 is overexpressed in prostate cancer and plays a pivotal role in cancer progression, establishing it as a potential therapeutic target.

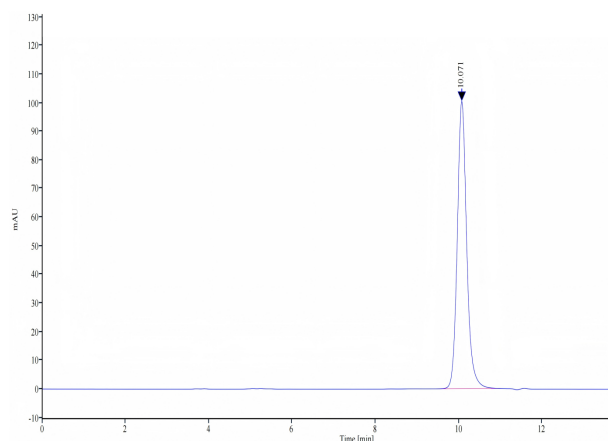
Assay Data

Bis-Tris PAGE



Rhesus macaque Kallikrein 2 on Bis-Tris PAGE under Non-reduced condition. The purity is greater than 95%.

SEC-HPLC

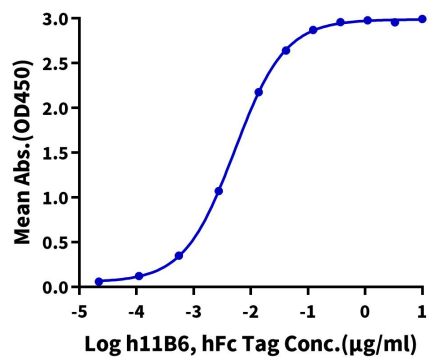


The purity of Rhesus macaque Kallikrein 2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

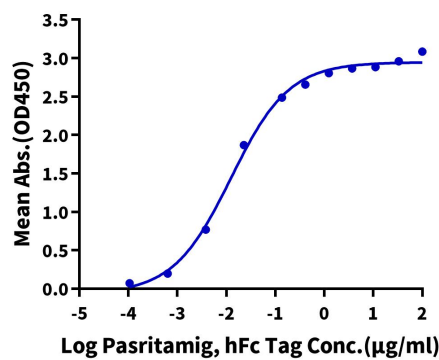
Rhesus macaque Kallikrein 2, His Tag ELISA
0.2µg Rhesus macaque Kallikrein 2, His Tag Per Well



Immobilized Rhesus macaque Kallikrein 2, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for h11B6, hFc Tag with the EC50 of 5.2ng/ml determined by ELISA.

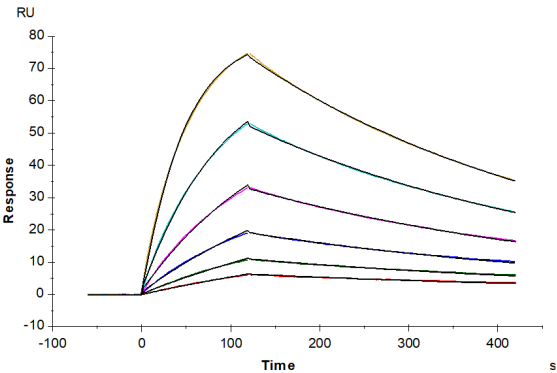
ELISA Data

Rhesus macaque Kallikrein 2, His Tag ELISA
0.2µg Rhesus macaque Kallikrein 2, His Tag Per Well



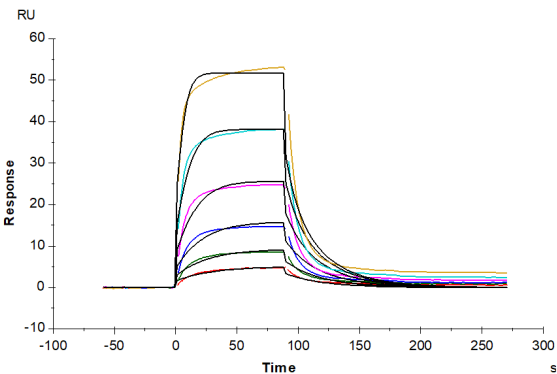
Immobilized Rhesus macaque Kallikrein 2, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Pasritamig with the EC50 of 12.5ng/ml determined by ELISA.

SPR Data



h11B6 captured on CM5 Chip via Protein A can bind Rhesus macaque Kallikrein 2, His Tag with an affinity constant of 12.48 nM as determined in SPR assay (Biacore T200).

SPR Data



Pasritamig captured on CM5 Chip via Protein A can bind Rhesus macaque Kallikrein 2, His Tag with an affinity constant of 34.85 nM as determined in SPR assay (Biacore T200).