

Human TEM1/cd248 Protein

Cat. No. TEM-HM148

Description

Source	Recombinant Human TEM1/cd248 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln18-Leu687.
Accession	Q9HCU0-1
Molecular Weight	The protein has a predicted MW of 72.7 kDa. Due to glycosylation, the protein migrates to 115-140 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 Storage

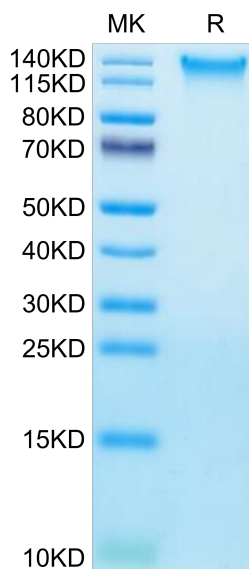
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
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

Colorectal cancer (CRC) is one of the most common cancers worldwide usually diagnosed in the advanced stage. The serum concentration of tumor endothelial marker 1 (TEM1) was measured and correlated with clinicopathological features to evaluate whether TEM1 might serve as a biomarker for early CRC diagnosis, progression, and prognosis. TEM1 can act as a potential diagnostic, progression, and prognostic serum biomarker for patients with CRC; TEM1 might be a good supplement for commonly used markers CEA and Ca 19-9.

Assay Data

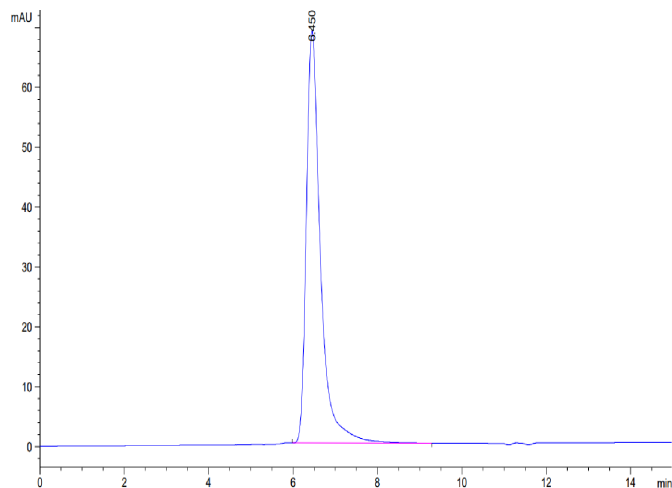
Bis-Tris PAGE



Human TEM1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

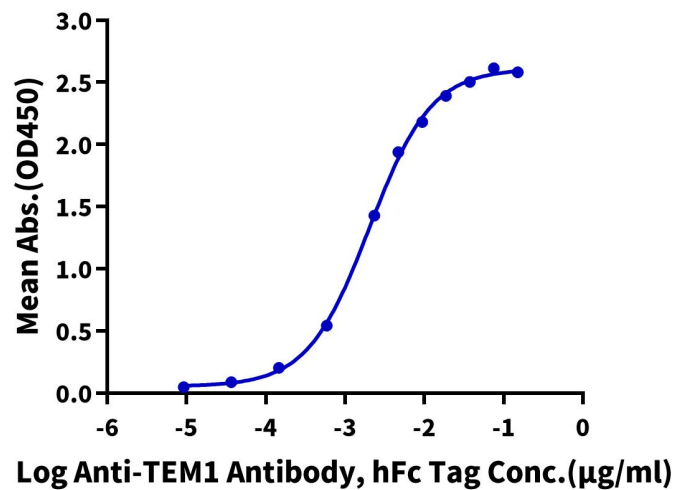
Assay Data



The purity of Human TEM1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human TEM1, His Tag ELISA
0.1 µg Human TEM1, His Tag Per Well



Immobilized Human TEM1, His Tag at 1 µg/ml (100 µl/Well) on the plate. Dose response curve for Anti-TEM1 Antibody, hFc Tag with the EC50 of 2.0 ng/ml determined by ELISA.