

Human CDH17/Cadherin 17 Protein

Cat. No. CDH-HM117

Description

Source	Recombinant Human CDH17/Cadherin 17 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gln23-Met787.
Accession	Q12864-1
Molecular Weight	The protein has a predicted MW of 86.1 kDa. Due to glycosylation, the protein migrates to 90-115 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

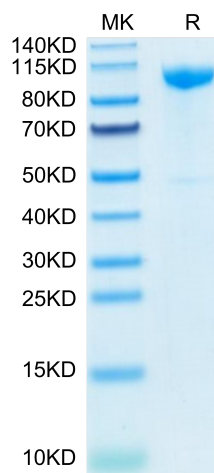
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized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

Liver-intestine cadherin (CDH17) has been known to function as a tumor stimulator and diagnostic marker for almost two decades. In vivo studies showed CDH17 knockout resulted in apoptotic PC tumor death through activating caspase-3 activity. Taken together, CDH17 functions as an oncogenic molecule critical to PC growth by regulating tumor apoptosis signaling pathways and CDH17 could be targeted to develop an anti-PC therapeutic approach.

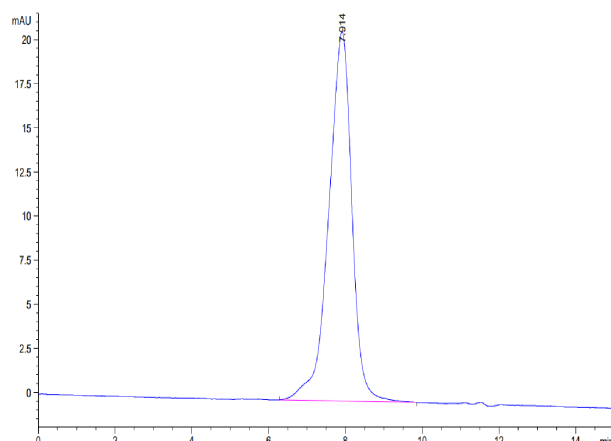
Assay Data

Bis-Tris PAGE



Human CDH17 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

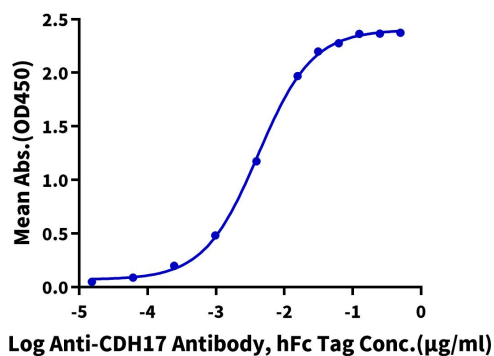


The purity of Human CDH17 is greater than 95% as determined by SEC-HPLC.

Assay Data

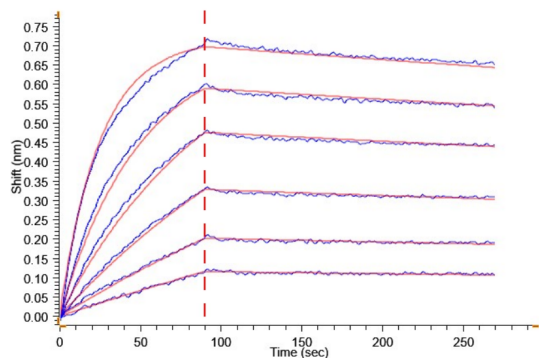
ELISA Data

Human CDH17, His Tag ELISA
0.1µg Human CDH17, His Tag Per Well



Immobilized Human CDH17, His Tag at 1 µg/ml (100 µl/Well) on the plate. Dose response curve for Anti-CDH17 Antibody, hFc Tag with the EC50 of 4.1 ng/ml determined by ELISA.

BLI Data



Loaded Anti-CDH17 Ab., hFc Tag on ProA-Biosensor can bind Human CDH17, His Tag with an affinity constant of 2.26 nM as determined in BLI assay (Gator® Prime).