Data Sheet (Cat.No.TMPK-00947)

TargetMol

Cadherin 17/CDH17 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms: CDH16;Cdh17;P130;cadherin-16;HPT-1;LI-cadherin;Cadherin-17;BILL-cadherin

Protein Construction: Gln23-Met787

Species: Human

Expression Host: HEK293 Cells

Accession: Q12864

Molecular Weight: 87.88 kDa (predicted). Due to glycosylation, the protein migrates to 105-120 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity: Immobilized Anti-CDH17 Antibody at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Human CDH17, His Tag with the EC50 of 16.7ng/ml determined by ELISA.

Purity: > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Reference

Liu X, et al. Disruption of oncogenic liver-intestine cadherin (CDH17) drives apoptotic pancreatic cancer death. Cancer Lett. 2019 Jul 10;454:204-214. doi: 10.1016/j.canlet.2019.04.022. Epub 2019 Apr 17. PMID: 31004701.