Data Sheet (Cat.No.TMPK-00951)

TargetMol

Cadherin 17/CDH17 Domain 5-7 Protein (Primary Amine Labeling), Human, Recombinant (His),

General Information

Synonyms:	FLJ26931;CDH16;LI-cadherin;MGC138218;cadherin-16;Cadherin-17;P130;BILL-cadherin; Cdh17;MGC142024;HPT-1
Protein Construction:	Glu450-Gly777
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q12864
Molecular Weight:	36.79 kDa (predicted). Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Biotinylated Human CDH17 Domain 5-7, His Tag at 0.5 μg/mL (100 μL/well) on the streptavidin precoated plate (5 μg/mL). Dose response curve for Anti-CDH17 Domain 5-7 Antibody, hFc Tag with the EC50 of 10.2 ng/mL determined by ELISA (QC Test)
Purity:	> 95% as determined by Tris-Bis PAGE
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.

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