Data Sheet (Cat.No.TMPY-01763)

TargetMol

Cadherin 16/CDH16 Protein, Human, Recombinant (His)

General Information

Synonyms:	UNQ695/PRO1340;cadherin 16
Protein Construction:	Lys19-Ala786
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O75309-1
Molecular Weight:	84.37 kDa (Predicted); 90-110 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human CDH16, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-CDH16 Antibody, Mouse IgG Tag with the EC50 of 16.8ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM NaCl (pH 8.0). Normally 8% trehalose is added as protectant 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

Cadherin (CDH)16/kidney-specific-cadherin was first described as a kidney-specific adhesion molecule and thereafter found expressed also in the thyroid gland. CDH16 is a thyroid-selective and hormone-dependent adhesion protein that might play a role during thyroid development and that may be a useful marker to monitor thyroid carcinomas.

Reference

Thomson RB,et al. (1999) Immunolocalization of Ksp-cadherin in the adult and developing rabbit kidney. Am J Physiol. 277 (1): 146-56.

Thedieck C,et al. (2005) Expression of Ksp-cadherin during kidney development and in renal cell carcinoma. Br J Cancer. 92(11): 2010-7.

Bai Y,et al. (2002) Regulation of kidney-specific Ksp-cadherin gene promoter by hepatocyte nuclear factor-1beta. Am J Physiol Renal Physiol. 283(4): 839-51.

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