

Cadherin 6/CDH6 Protein, Human, Recombinant (His)

General Information

Synonyms:	CAD6;cadherin 6, type 2, K-cadherin (fetal kidney);KCAD
Protein Construction:	Ser54-Ala615
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P55285-1
Molecular Weight:	63.62 kDa (Predicted); 75-95 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human CDH6, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-CDH6 Antibody, Rabbit IgG Tag with the EC50 of 76.8ng/ml determined by ELISA.
Purity:	> 90% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). 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 6 (CDH6) is an adhesion molecule localizing to the endometrial luminal epithelial cell surface in the mid-secretory/receptive phase and knockdown of CDH6 in the Ishikawa cells (receptive endometrial epithelial cell line) compromises cell integrity.

Reference

Paul R,et al.(1997) Cadherin-6, a cell adhesion molecule specifically expressed in the proximal renal tubule and renal cell carcinoma. *Cancer Res.* 57(13): 2741-8.

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Liu Q,et al.(2006) cadherin-6 message expression in the nervous system of developing zebrafish. *Dev Dyn.* 235(1): 272-8.

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