# Recombinant Human CDH6/K-Cadherin Protein

**Catalog No.: RP01406**

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## Sequence Information

**Species**
Human

**Gene ID**
1004

**Swiss Prot**
P55285-1

**Tags**
C-hFc&His

**Synonyms**
CAD6, KCAD,CDH6,KCAD

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 90 % as determined by SDS-PAGE.

**Calculated MW**
93.18 kDa

**Observed MW**
120-140 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

CDH6 is a family of calcium-dependent, cell-cell adhesion molecules that play an important morphoregulatory role in a wide variety of tissues. Alterations in cadherin function have been implicated in tumor progression in a number of adenocarcinomas. Cadherin-6 (CDH6), also known as K-cadherin (KCAD), is a type-II classic cadherin cell-cell adhesion molecules, which are expressed in graded or areal patterns, as well as layer-specific patterns, in the cortical plate. Human Cadherin-6 is synthesized as a 790 aa type I transmembrane glycoprotein that contains a 18 aa signal peptide, a 35 aa propeptide, a 562 aa extracellular region, a 21 aa transmembrane segment, and a 154 aa cytoplasmic domain. There are five cadherin domains of approximately 110 aa each in the extracellular region. Cadherin-6 is highly expressed in brain, cerebellum, and kidney, and may contribute to the formation of the segmental structure of the early brain, as well as the development of renal proximal tubules. Weak expression is also detected lung, pancreas, and gastric mucosa. Additionally, it is specifically expressed in the proximal tubule of normal kidneys and in renal cell cancer. Thus, Cadherin-6 is a new prognostic factor for renal cancer.

## Basic Information

**Description**
Recombinant Human CDH6/K-Cadherin Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr19-Ala615) of human K-Cadherin (Accession #NP_004923.1) fused with a Fc, 6×His tag at the C-terminus.

**Activity**
Measured by its binding ability in a functional ELISA. Immobilized Human ULBP1 (Catalog: RP01454) at 2μg/mL (100 μL/well) can bind NKG2D with a linear range of 1.95-9.36ng/mL.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

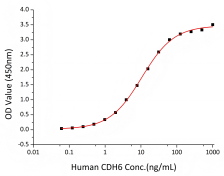
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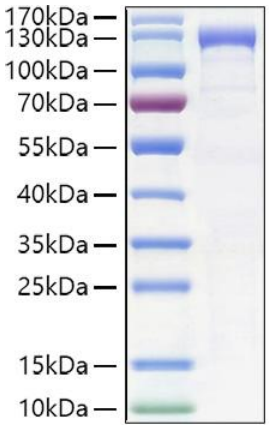


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## Validation Data




Measured by its binding ability in a functional ELISA.Immobilized Human CDH6 (Catalog: RP01406) at 1 ug/mL (100 µL/well) can bind CDH6 Mouse mAb with a linear range of 0.06-10.6 ng/mL.




Recombinant Human CDH6/K-Cadherin Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.