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Datasheet for ABIN7520245 CDH6 Protein (His tag)

Overview

Quantity:	10 µg
Target:	CDH6
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CDH6 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human CDH6/K-Cadherin Protein
Sequence:	TLSTPLSKRT SGFPAKKRAL ELSGNSKNEL NRSKRSMWVN QFFLLEEYTG SDYQYVGKLN SDQDRGDGSL KYILSGDGAG DLFIIINENTG DIQATKRLDR EEKPVYILRA QAINRRTGRP VEPESEFIK IHDINDNEPI FTKEVYTATV PEMSDVGTFFV VQVTATDADD PTYGNSAKVV YSILQGQPYF SVESETGIIK TALLNMDREN REQYQVVIQA KDMGGQMGGI SGTTTVNITL TDVNDNPPRF PQSTYQFKTP ESSPPGTPIG RIKASDADVG ENAEIEYSIT DGEGLDMFDD ITDQETQEGI ITVKKLLDFE KKKVYTLKVE ASNPYVEPRF LYLGPFKDSA TVRIVVEDVD EPPVFSKLAY ILQIREDAQI NTTIGSVTAQ DPDAARNPVK YSVDRHTDMD RIFNIDSGNG SIFTSKLLDR ETLWLNITV IATEINNPQK SSRVPLYIKV LDVNDNAPEF AEFYETFVCE KAKADQLIQT LHAVDKDDPY SGHQFSFSLA PEAASGSNFT IQDNKDNTAG ILTRKNGYNR HEMSTYLLPV VISDNDYPVQ SSTGTVTVRV CACDHHGNMQ SCHAEALHHP TGLSTGA
Specificity:	Thr19-Ala615
Purity:	> 95 % by SDS-PAGE.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human CDH6 at 1µg/mL (100 µL/well) can bind CDH6 Mouse mAb with a linear range of 0.05-6.31 ng/mL.

Target Details

Target:	CDH6
Alternative Name:	CDH6/K-Cadherin (CDH6 Products)
Background:	<p>Description: 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.</p> <p>Name: CAD6, KCAD,CDH6,KCAD</p>
Gene ID:	1004
UniProt:	P55285-1
Pathways:	Cell-Cell Junction Organization

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Handling

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 stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.