

## Recombinant Human CDH16 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CDH16-2982H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | CDH16 MS Standard C13 and N15-labeled recombinant protein (NP_004053) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | This gene is a member of the cadherin superfamily, genes encoding calcium-dependent, membrane-associated glycoproteins. Mapped to a previously identified cluster of cadherin genes on chromosome 16q22.1, the gene localizes with superfamily members CDH1, CDH3, CDH5, CDH8 and CDH11. The protein consists of an extracellular domain containing 6 cadherin domains, a transmembrane region and a truncated cytoplasmic domain but lacks the prosequence and tripeptide HAV adhesion recognition sequence typical of most classical cadherins. Expression is exclusively in kidney, where the protein functions as the principal mediator of homotypic cellular recognition, playing a role in the morphogenic direction of tissue development. Alternatively spliced transcript variants encoding distinct isoforms have been identified. |
| <b>Molecular Mass</b>   | 89.92 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MVPAWLWLLCVSVPQALPKAQAELSVEVPENYGGNFFLYLTKLPLPREGAEGQIV<br>LSGDSGKATEGPFAMDPDSGFLVTRALDREEQA EYQLQVTLEMQDGHVLWGQPQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VLVHVKDENDQVPHFSQAIYRARLSRGTRPGIPFLFLEASDRDEPGTANSDLRFHILS  
 QAPAQSPDMFQLEPRLGALALSPKGSTSLDHALERTYQLLVQVKDMGDQASGHQ  
 ATATVEVSIIESTWVSLEPIHLAENLKVLYPHHMAQVHWSSGGDVHYHLESHPPGPFE  
 VNAEGLNYVTRELDREAQAEYLLQVRAQNSHGEDIAAPLELHVLVMDENDNVPICP  
 PRDPTVSIPELSPPGTEVTRLAEDADAPGSPNSHVYQLLSPEPEDGVEGRAFQV  
 DPTSGSVTLGLVPLRAGQNILLVLAMDLAGAEGGFSSTCEVEVAVTDINDHAPEFIT  
 SQIGPISLPEDVEPGTLVAMLTADADLEPAFRLMDFAIERGDTEGTFGLDWEPDSGH  
 VRLRLCKNLSYEAAPSHEVVVVVQSVAKLVGPGPGPGATATVTVLVERVMPPPKLD  
 QESYEASVPISAPAGSFLITIQPSDPISRTLRFSLVNDSEGWLCIEKFSGEVHTAQSL  
 QGAQPGDTYTVLVEAQDTDEPRLSASAPLVIHFLKAPPAPALTAPVPSQYLCTPRQ  
 DHGLIVSGPSKDPDLASGHGPYSFTLGNPTVQRDWRLQTLNGSHAYLTALHWVE  
 PREHIIPVVVSHNAQMWQLLVRVIVCRCNVEGQCMRKVGRMKGMPTKLSAVGILVG  
 TLVAIGIFLILIFTHWTMSRKKDPDQPADSVPLKATVTRTRPLEQKLISEEDLAANDILD  
 YKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

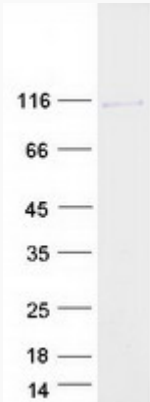
**Gene Name** CDH16 cadherin 16 [ Homo sapiens (human) ]

**Official Symbol** CDH16

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|-----------------------|----------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | CDH16; cadherin 16, KSP-cadherin; cadherin-16; KSP-cadherin; kidney-specific cadherin; |
| <b>Gene ID</b>        | 1014                                                                                   |
| <b>mRNA Refseq</b>    | NM_004062                                                                              |
| <b>Protein Refseq</b> | NP_004053                                                                              |
| <b>MIM</b>            | 603118                                                                                 |
| <b>UniProt ID</b>     | O75309                                                                                 |
| <b>SDS-PAGE</b>       |     |