

Recombinant Human CDH16 Protein, GST-Tagged

Cat. No. CDH16-0976H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDH16 full-length ORF (NP_004053.1, 1 a.a. - 829 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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. [provided by RefSeq, Mar 2011]
Molecular Mass	116.3 kDa
AA Sequence	MVPAWLWLLCVSPQALPKAQAELSVEVPENYGGNFPLYLTKLPLPREGAEGQIV LSGDSGKATEGPFAMDPDSGFLVTRALDREEQA EYQLQVTLEMQDGHVLWGPQP VLVHVKDENDQVP HFSQAIYRARLSRGTRPGIPFLFLEASDRDEPGTANSDLRFHILS

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QAPAQPSDFMFQLEPRLGALALSPKGSTSLDHALERTYQLLVQVKMDGDQASGHQ
 ATATVEVSIIESTWVSLEPIHLAENLKVLYPHHMAQVHWSSGGDVHYHLESHPPGPF
 VNAEGNLYVTRELDREAQAEYLLQVRAQNSHGEDIAAPLELHVLVMDENDNVPICP
 PRDPTVSIPELSPPGTEVTRLAEDADAPGSPNSHVYQLLSPEPEDGVEGRAQV
 DPTSGSVTLGVLPLRAGQNILLVLAMDLAGAEGGFSSTCEVEVAVTDINDHAPEFIT
 SQIGPISLPEDVEPGTLVAMLTADADLEPAFRMLDFAIERGDTEGTGFLDWEPDSGH
 VRLRLCKNLSYEAAPSHEVVVVVQSVAKLVGPGPGGATATVTVLVERVMPPPKLD
 QESYEASVPISAPAGSFLTIQPSDPISRTLRFSLVNDSEGWLCIEKFSGEVHTAQSL
 QGAQPGDTYTVLVEAQDTDEPRLSASAPLVIHFLKAPPAPALTAPVPSQYLCTPRQ
 DHGLIVSGPSKDPDLASGHGPYSFTLGNPTVQRDWRLQTLNGSHAYLTALHWVE
 PREHIIPVVVSHNAQMWQLLVRVIVCRCNVEGQCMRKVGRMKGMPTKLSAVGILVG
 TLVAIGIFLILIFTHWTMSRKKDPDQPADSVPLKATV

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

CDH16 cadherin 16, KSP-cadherin [Homo sapiens]

Official Symbol

CDH16

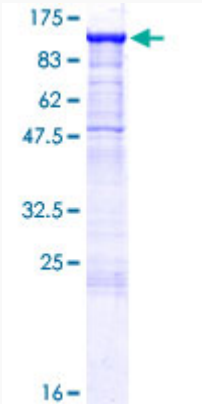
Synonyms

CDH16; cadherin 16, KSP-cadherin; cadherin-16; KSP-cadherin; kidney-specific cadherin;

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Gene ID	1014
mRNA Refseq	NM_001204744
Protein Refseq	NP_001191673
MIM	603118
UniProt ID	O75309
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.