

Product datasheet for TP511134

Ctnna1 (NM_009818) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse catenin (cadherin associated protein), alpha 1 (Ctnna1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211134 protein sequence Red=Cloning site Green=Tags(s)

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVTTNSKGPSNKKRGRSKKAHVLAASVEQATE
NFLEKGDKIAKESQFLKEELVAVEDVRKQGDLMKSAAGEFADDPCCSVKRGNMVRAARALLSAVTRLLI
LADMADVYKLLVQLKVVEDGILKLRNAGNEQDLGIQYKALKPEVDKLNIMAAKRQQELKDVGNRDQMAAA
RGILQKNVPILYASQAQLQHPDVAAYKANRDLIYKQLQQAQVTGISNAAQATASDDAAQHGGGGGELAY
ALNNFDKQIIVDPLSFSEERFRPSLEERLESIIISGAALMADSSCTRDDRRERIVAECNAVRQALQDLLSE
YMGNAGRKERSDALNSAIDKMTKKTRDLRRQLRKAVMDHVSDSFLETNVPLLVIEAAKNGNEKEVKEYA
QVREHANKLIEVANLACISISNNEEGVKLVRMSASQLEALCPQVINAALALAAKPSKLAQENMDLFKEQ
WEKQVRVLTDAVDDITSIDDFLAVSENHILEDVNKCVIALQEKDVDGLDRTAGAIRGRAARVIHVVTSEM
DNYEPGVYTEKVLKLLSNTVMPRFTEQVEAAVEALSSDPAQPMDEFIDASRLVYDGIKDIRKAVL
MIRTPPELDDSDFETEDFDVRSRTSVQTEDDQLIAGQSARAIMAQLPQEQAIAEQVASFQEEKSKLDA
EVSKWDDSGNDITVLAKQCMIMMEMTDFTRGKGPLKNTSDVISAAKIAEAGSRMDKLGRTIADHCPDS
VCKQDLLAYLQRIALYCHQLNICKSVKAEVQNLGGELVWVGVDVSAMSLIQAAKNLMNAVQTVKASYVAS
TKYQKSQGMASLNLPAVSWKMKAPEKKPLVKREKQDETQTKIKRASQKKHVNPVQALSEFKAMDSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	100.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_033948</u>
Locus ID:	12385
UniProt ID:	<u>P26231</u> , <u>Q545R0</u>
RefSeq Size:	3713
Cytogenetics:	18 18.89 cM
RefSeq ORF:	2721
Synonyms:	2010010M04Rik; AA517462; AI988031; Catna1
Summary:	Associates with the cytoplasmic domain of a variety of cadherins. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. Can associate with both E- and N-cadherins. Originally believed to be a stable component of E-cadherin/catenin adhesion complexes and to mediate the linkage of cadherins to the actin cytoskeleton at adherens junctions. In contrast, cortical actin was found to be much more dynamic than E-cadherin/catenin complexes and CTNNA1 was shown not to bind to F-actin when assembled in the complex suggesting a different linkage between actin and adherens junctions components. The homodimeric form may regulate actin filament assembly and inhibit actin branching by competing with the Arp2/3 complex for binding to actin filaments. May play a crucial role in cell differentiation.[UniProtKB/Swiss-Prot Function]