

Product datasheet for PH308947

beta Catenin (CTNNB1) (NM_001904) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CTNNB1 MS Standard C13 and N15-labeled recombinant protein (NP_001895)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208947
Predicted MW:	85.3 kDa
Protein Sequence:	>RC208947 representing NM_001904 Red=Cloning site Green=Tags(s)

MATQADLMELDMAMEPDRKAAVSHWQQSYLDSGIHSGATTTAPSLSGKGNPEEEDVDTSQVLYEWEQGF
SQSFTQEQVADIDGQYAMTRAQRVRAAMFPELDEGMQIPSTQFDDAAHPTNVQRLAEPQMLKHAVVNL
NYQDDAELATRAIPELTKLLNDEDQVVVNKAAMVHQLSKKEASRHAIMRSPQMVSIVRTMONTNDVET
ARCTAGTLHNLSSHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITTLHNLHLLHQEGAKMAVRLAGGLQ
KMVALLNKTNVKFLAITTDCLQILAYGNQESKLIILASGGPQALVNIMRTYTYEKLLWTTSRVLKVLVSV
SSNKPAIVEAGGMQALGLHLTDPQRLVQNCWLRNLSDAATKQEGMEGLLGTLLVQLLGSDDINVVVTC
AGILSNLTCNNYKNKMMVCQVGGIEALVRTVLRAGDREDITEPAICALRHLSRHHQEAEMAQNAVRLHYG
LPVVVLLHPPSHWPLIKATVGLIRNLALCPANHAPLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQQQF
VEGVRMEEIVEGCTGALHILARDVHNRIVIRGLNTIPLFVQLLYSPIENIQRVAAGVLCALAQDKEAAEA
IEAEGATAPLTELHLSRNEGVATYAAAVLFRMSEDKPQDYKRLSVELTSSLFRTEPMAWNETADLGLDI
GAQGEPLGYRQDDPSYRSFHSGGYGQDALGMDPMEHEMGGHHPGADYPVDGLPDLGHAQDLMGDLPPGD
SNQLAWFDTDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001895</u>



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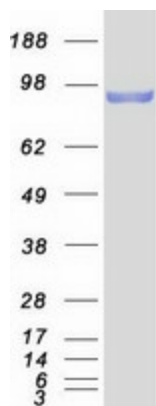
RefSeq Size:	3697
RefSeq ORF:	2343
Synonyms:	armadillo; CTNNB; EVR7; MRD19; NEDSDV
Locus ID:	1499
UniProt ID:	P35222 , A0A024R2Q3
Cytogenetics:	3p22.1

Summary: The protein encoded by this gene is part of a complex of proteins that constitute adherens junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. The encoded protein also anchors the actin cytoskeleton and may be responsible for transmitting the contact inhibition signal that causes cells to stop dividing once the epithelial sheet is complete. Finally, this protein binds to the product of the APC gene, which is mutated in adenomatous polyposis of the colon. Mutations in this gene are a cause of colorectal cancer (CRC), pilomatrixoma (PTR), medulloblastoma (MDB), and ovarian cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

Protein Pathways: Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Focal adhesion, Leukocyte transendothelial migration, Melanogenesis, Pathogenic Escherichia coli infection, Pathways in cancer, Prostate cancer, Thyroid cancer, Tight junction, Wnt signaling pathway

Product images:



Coomassie blue staining of purified CTNNB1 protein (Cat# [TP308947]). The protein was produced from HEK293T cells transfected with CTNNB1 cDNA clone (Cat# [RC208947]) using MegaTran 2.0 (Cat# [TT210002]).