Recombinant Dog CTNNB1 Protein

Cat. No. CTNNB1-01D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog CTNNB1 Protein without tag was expressed in E. coli.
Species	Dog
Source	E.coli
Description	Key downstream component of the canonical Wnt signaling pathway. In the absence of Wnt, forms a complex with AXIN1, AXIN2, APC, CSNK1A1 and GSK3B that promotes phosphorylation on N-terminal Ser and Thr residues and ubiquitination of CTNNB1 via BTRC and its subsequent degradation by the proteasome. In the presence of Wnt ligand, CTNNB1 is not ubiquitinated and accumulates in the nucleus, where it acts as a coactivator for transcription factors of the TCF/LEF family, leading to activate Wnt responsive genes.
Molecular Mass	86.5 kDa
AA Sequence	MHHHHHHHHATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTTAPSL SGKGNPEEEDVDTTQVLYEWEQGFSQSFTQEQVADIDGQYAMTRAQRVRAAMFP ETLDEGMQIPSTQFDAAHPTNVQRLAEPSQMLKHAVVNLINYQDDAELATRAIPELT KLLNDEDQVVVNKAAVMVHQLSKKEASRHAIMRSPQMVSAIVRTMQNTNDVETARC TAGTLHNLSHHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITTLHNLLLHQEGAKM AVRLAGGLQKMVALLNKTNVKFLAITTDCLQILAYGNQESKLIILASGGPQALVNIMRT YTYEKLLWTTSRVLKVLSVCSSNKPAIVEAGGMQALGLHLTDPSQRLVQNCLWTLR NLSDAATKQEGMEGLLGTLVQLLGSDDINVVTCAAGILSNLTCNNYKNKMMVCQVG

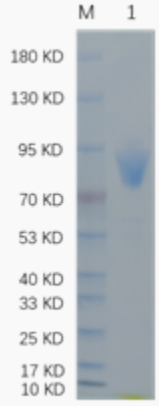
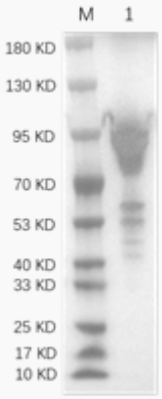
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	GIEALVRTVLRAGDREDITEPAICALRHLTSRHQEAEMAQNAVRLHYGLPVVVKLLHP PSHWPLIKATVGLIRNLALCPANHAPLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQ QQFVEGVRMEEIVEGCTGALHILARDVHNRIVIRGLNTIPLFVQLLYSPIENIQRVAAG VLCELAQDKEAAEAIEAEGATAPLTELLHSRNEGVATYAAAVLFRMSEDKPQDYKKR LSVELTSSLFRTEPMAWNETADLGLDIGAQGEPLGYRQDDPSYRSFHSGGYGQDAL GMDPMMEHEMGGHHPGADYPVDGLPDLGHAQDLMDGLPPGDSNQLAWFDTD
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.56 mg/mL
Storage Buffer	50mM Tris, 300mM NaCl, pH 8.0

GENE INFORMATION

Gene Name	CTNNB1 catenin beta 1 [Canis lupus familiaris (dog)]
Official Symbol	CTNNB1
Synonyms	CTNNB1; catenin beta 1; catenin beta-1; beta-catenin
Gene ID	477032
mRNA Refseq	NM_001137652
Protein Refseq	NP_001131124
UniProt ID	B6V8E6

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SDS-PAGE	 Reducing 12% SDS-PAGE and WB analysis profiles of purified CTNNB1.
	

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