

Recombinant Human beta Catenin protein (Tagged) ab63175

6 References 画像数 3

製品の詳細

製品名	Recombinant Human beta Catenin protein (Tagged)
精製度	> 70 % Affinity purified. Purified by affinity chromatography
発現系	Baculovirus infected Sf9 cells
アクセッション番号	<u>NM_001904</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human

配列	MATQADLMEL	DMAMEPDRKA	AVSHWQQQSY
	LDSGIHSGAT	TTAPSLSGKG	NPEEDVDTS
	QVLYEWEQGF	SQSFTQEQA	DIDGQYAMTR
	AQRVRAAMFP	ETLDEGMQIP	STQFDAAHPT
	NVQRLAEPSQ	MLKHAVVNL	NYQDDAELAT
	RAIPELTKLL	NDEDQVVVN	AAVMVHQLSK
	KEASRHAIMR	SPQMVSAIV	TMQNTNDVET
	ARCTAGTLHN	LSHHREGLLA	IFKSGGIPAL
	VKMLGSPVDS	VLFYAITTLH	NLLHHEGAK
	MAVRLAGGLQ	KMVALLNKTN	VKFLAITTD
	LQILAYGNQE	SKLIILASGG	PQALVNIMRT
	YTYEKLLWTT	SRVLKVL	SSNKPAIVEA
	GGMQALGLHL	TDPSQRLVQN	CLWTLRNLSD
	AATKQEGMEG	LLGTLVQLLG	SDDINVVTCA
	AGILSNLTCN	NYKNKMMVCQ	VGGIEALVRT
	VLRAGDREDI	TEPAICALRH	LTSRHQEAEM
	AQNAVRLHYG	LPVVVKLLHP	PSHWPLIKAT
	VGLIRNLALC	PANHAPLREQ	GAIPRLVQLL
	VRAHQDTQRR	TSMGGTQQQF	VEGVRMEEIV
	EGCTGALHIL	ARDVHNRIVI	RLNTIPLFV
	QLLYSPIENI	QRVAAGVLCE	LAQDKEAAEA
	IEAEGATAPL	TELLHSRNEG	VATYAAAVLF
	RMSEDKPQDY	KKRLSVELTS	SLFRTEPMAW
	NETADLGLDI	GAQGEPLGYR	QDDPSYRSFH
	SGGYGQDALG	MDPMMEHEMG	GHHPGADYPV

予測される分子量	115 kDa
領域	1 to 781
タグ	GST tag N-Terminus

特性

Our **Abpromise guarantee** covers the use of **ab63175** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Western blot
	SDS-PAGE
	ELISA

製品の状態	Liquid
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前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
	pH: 7.50
	Constituents: 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

関連情報

機能	<p>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.</p> <p>Involved in the regulation of cell adhesion. The majority of beta-catenin is localized to the cell membrane and is part of E-cadherin/catenin adhesion complexes which are proposed to couple cadherins to the actin cytoskeleton.</p>
組織特異性	Expressed in several hair follicle cell types: basal and peripheral matrix cells, and cells of the outer and inner root sheaths. Expressed in colon.
関連疾患	<p>Defects in CTNNB1 are associated with colorectal cancer (CRC) [MIM:114500].</p> <p>Note=Activating mutations in CTNNB1 have oncogenic activity resulting in tumor development. Somatic mutations are found in various tumor types, including colon cancers, ovarian and prostate carcinomas, hepatoblastoma (HB), hepatocellular carcinoma (HCC). HBs are malignant embryonal tumors mainly affecting young children in the first three years of life.</p> <p>Defects in CTNNB1 are a cause of pilomatixoma (PTR) [MIM:132600]; a common benign skin tumor.</p> <p>Defects in CTNNB1 are a cause of medulloblastoma (MDB) [MIM:155255]. MDB is a malignant, invasive embryonal tumor of the cerebellum with a preferential manifestation in children.</p> <p>Defects in CTNNB1 are a cause of susceptibility to ovarian cancer (OC) [MIM:167000]. Ovarian cancer common malignancy originating from ovarian tissue. Although many histologic types of ovarian neoplasms have been described, epithelial ovarian carcinoma is the most common form.</p>

Ovarian cancers are often asymptomatic and the recognized signs and symptoms, even of late-stage disease, are vague. Consequently, most patients are diagnosed with advanced disease. Note=A chromosomal aberration involving CTNNB1 is found in salivary gland pleiomorphic adenomas, the most common benign epithelial tumors of the salivary gland. Translocation t(3;8) (p21;q12) with PLAG1.

配列類似性

Belongs to the beta-catenin family.

Contains 12 ARM repeats.

翻訳後修飾

Phosphorylation by GSK3B requires prior phosphorylation of Ser-45 by another kinase.

Phosphorylation proceeds then from Thr-41 to Ser-37 and Ser-33.

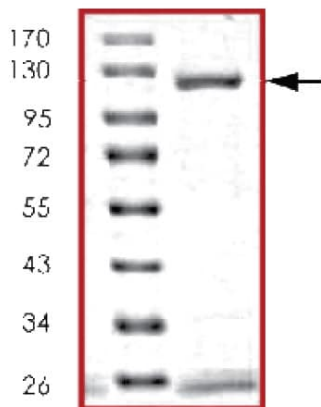
EGF stimulates tyrosine phosphorylation. Phosphorylation on Tyr-654 decreases CDH1 binding and enhances TBP binding.

Ubiquitinated by the SCF(BTRC) E3 ligase complex when phosphorylated by GSK3B, leading to its degradation. Ubiquitinated by a E3 ubiquitin ligase complex containing UBE2D1, SIAH1, CACYBP/SIP, SKP1, APC and TBL1X, leading to its subsequent proteasomal degradation.

細胞内局在

Cytoplasm. Nucleus. Cytoplasm > cytoskeleton. Cell junction > adherens junction. Cell junction. Cell membrane. Cytoplasmic when it is unstabilized (high level of phosphorylation) or bound to CDH1. Translocates to the nucleus when it is stabilized (low level of phosphorylation). Interaction with GLIS2 and MUC1 promotes nuclear translocation. Interaction with EMD inhibits nuclear localization.

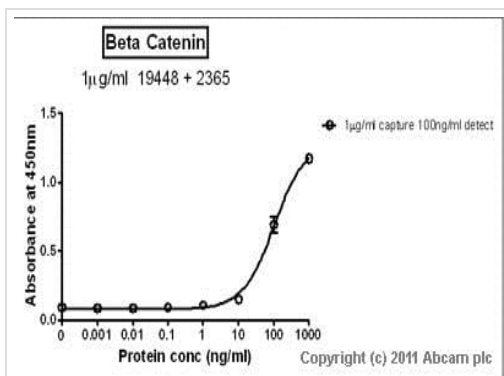
画像



SDS-PAGE analysis of Recombinant Human beta Catenin protein (Tagged) (ab63175).

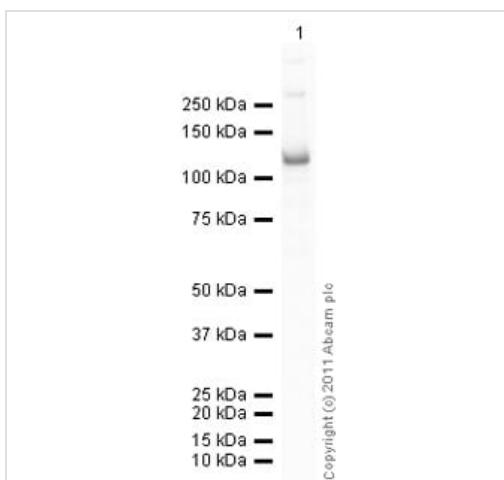
MW ~115 kDa

SDS-PAGE - Recombinant Human beta Catenin protein (Tagged) (ab63175)



Sandwich ELISA - Recombinant Human beta Catenin protein (Tagged) (ab63175)

Standard Curve for ab63175; dilution range 1 µg/ml to 1 µg/ml using Capture Antibody **Mouse monoclonal [BDI080] to beta Catenin (ab19448)** at 1 µg/ml and Detector Antibody **Rabbit polyclonal to beta Catenin (ab16051)** at 0.1 µg/ml.



Western blot - Recombinant Human beta Catenin protein (Tagged) (ab63175)

Anti-beta Catenin antibody (**ab16051**) at 0.25 µg/ml + Recombinant Human beta Catenin protein (Tagged) (ab63175) at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 10 seconds

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