

Anti-beta Catenin (phospho S37) antibody [EP742(2)Y] ab75777

リコンビナント **RabMAb**

15 References **画像数 6**

製品の概要

製品名	Anti-beta Catenin (phospho S37) antibody [EP742(2)Y]
製品の詳細	Rabbit monoclonal [EP742(2)Y] to beta Catenin (phospho S37)
由来種	Rabbit
特異性	<i>Stimulation may be required to allow detection of the phosphorylated protein. Please see images below for recommended treatment conditions and positive controls.</i>
アプリケーション	適用あり: WB, Dot blot 適用なし: Flow Cyt, ICC/IF, IHC-P or IP
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	293T cell lysates, untreated or treated with calyculin A.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

アプリケーション

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 100 kDa (predicted molecular weight: 85 kDa).
Dot blot		1/1000.

ターゲット情報

関連疾患

Defects in CTNNB1 are associated with colorectal cancer (CRC) [MIM:114500].
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.

Defects in CTNNB1 are a cause of pilomatrixoma (PTR) [MIM:132600]; a common benign skin tumor.

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.

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. 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.

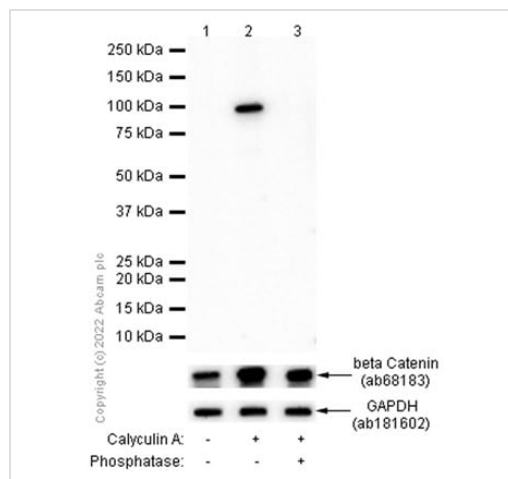
Ubiquitinated by the SCF(BTRC) E3 ligase complex when phosphorylated by GSK3B, leading to its degradation. Ubiquitinated by a E3 ubiquitin ligase complex containing UBE2D1, SIAH1, CACYBP/SIP, SKP1, APC and TBL1X, leading to its subsequent proteasomal degradation.

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



Western blot - Anti-beta Catenin (phospho S37) antibody [EP742(2)Y] (ab75777)

All lanes : Anti-beta Catenin (phospho S37) antibody [EP742(2)Y] (ab75777) at 1/1000 dilution

Lane 1 : Untreated C6 (Rat glial tumor glial cell) whole cell lysate

Lane 2 : C6 treated with 100ng/ml Calyculin A for 30 min whole cell lysate

Lane 3 : C6 treated with 100ng/ml Calyculin A for 30 min whole cell lysate, then membrane treated with Alkaline Phosphatase for 1 hour

Lysates/proteins at 15 µg per lane.

Secondary

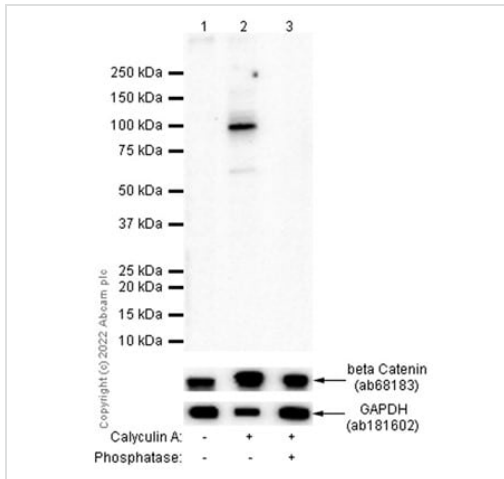
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 85 kDa

Observed band size: 100 kDa

Exposure time: 40 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST



Western blot - Anti-beta Catenin (phospho S37) antibody [EP742(2)Y] (ab75777)

All lanes : Anti-beta Catenin (phospho S37) antibody [EP742(2)Y] (ab75777) at 1/1000 dilution

Lane 1 : Untreated NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

Lane 2 : NIH/3T3 treated with 100nM Calyculin A for 30 min whole cell lysate

Lane 3 : NIH/3T3 treated with 100nM Calyculin A for 30 min whole cell lysate, then membrane treated with Alkaline Phosphatase for 1 hour

Lysates/proteins at 15 µg per lane.

Secondary

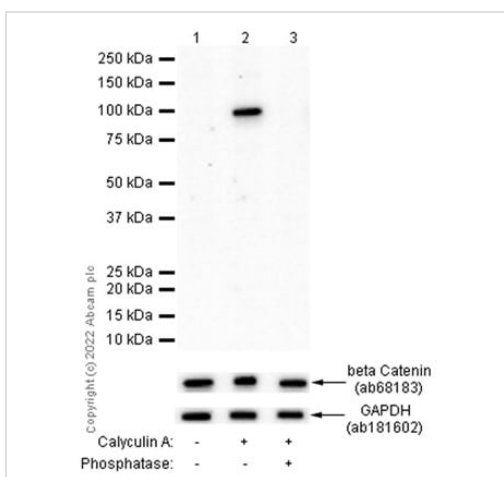
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 85 kDa

Observed band size: 100 kDa

Exposure time: 120 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST



Western blot - Anti-beta Catenin (phospho S37) antibody [EP742(2)Y] (ab75777)

All lanes : Anti-beta Catenin (phospho S37) antibody [EP742(2)Y] (ab75777) at 1/1000 dilution

Lane 1 : Untreated HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : HeLa treated with 100nM Calyculin A for 30 min whole cell lysate

Lane 3 : HeLa treated with 100nM Calyculin A for 30 min whole cell lysate, then membrane treated with Alkaline Phosphatase for 1 hour

Lysates/proteins at 15 µg per lane.

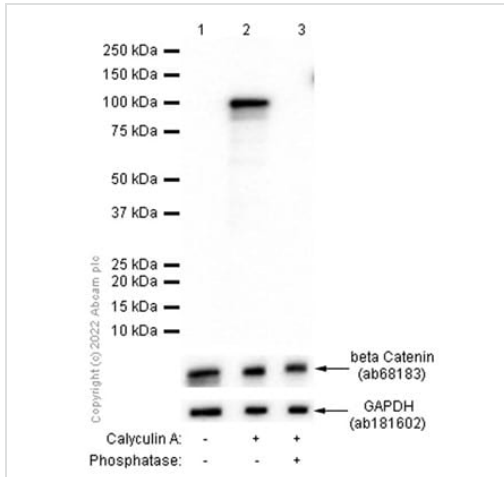
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 85 kDa
Observed band size: 100 kDa

Exposure time: 80 seconds

Blocking and diluting buffer and concentration: 5%
NFDM/TBST



Western blot - Anti-beta Catenin (phospho S37)
antibody [EP742(2)Y] (ab75777)

All lanes : Anti-beta Catenin (phospho S37) antibody [EP742(2)Y] (ab75777) at 1/1000 dilution

Lane 1 : Untreated HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

Lane 2 : HEK-293 treated with 50nM Calyculin A for 3 hours whole cell lysate

Lane 3 : HEK-293 treated with 50nM Calyculin A for 3 hours whole cell lysate, then membrane treated with Alkaline Phosphatase for 1 hour

Lysates/proteins at 15 µg per lane.

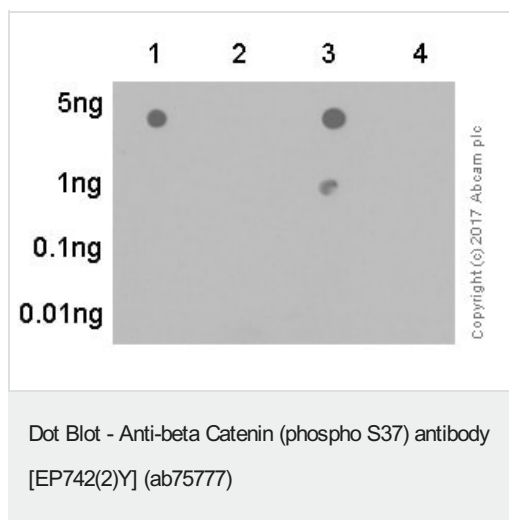
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 85 kDa
Observed band size: 100 kDa

Exposure time: 10 seconds

Blocking and diluting buffer and concentration: 5%
NFDM/TBST



Dot blot analysis of Beta catenin phospho peptide with ab75777 at 1/1000 exposed for 3 minutes. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) (1/100,000) was used as the secondary antibody. Blocking buffer 5% NFDm/TBST. Diluting buffer 5% NFDm/TBST.

Lane 1: Beta catenin (pS33+pS37) phospho peptide

Lane 2: Beta catenin (pS33) phospho peptide

Lane 3: Beta catenin (pS37) phospho peptide

Lane 4: Beta catenin non-phospho peptide

Why choose a recombinant antibody?

Research with confidence
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Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-beta Catenin (phospho S37) antibody [EP742(2)Y] (ab75777)

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