

Datasheet for ABIN457419
anti-beta Catenin antibody

4 Images



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Overview

Quantity:	0.1 mg
Target:	beta Catenin (CATNB)
Reactivity:	Human, Mouse, Hamster
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This beta Catenin antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant human beta-catenin
Clone:	EM-22
Isotype:	IgG2a
Specificity:	The mouse monoclonal antibody EM-22 reacts with C-terminal part of beta-catenin (intracellular antigen), an 88 kDa multifunctional protein involved both in cell adhesion and in activation of transcription.
Cross-Reactivity (Details):	Human, Mouse, Hamster
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	beta Catenin (CATNB)
Alternative Name:	beta-Catenin (CATNB Products)
Background:	Catenin beta 1, Beta-catenin is a multifunctional protein involved both in cell adhesion and in activation of transcription. Calcium-dependent intercellular adhesion transmembrane glycoprotein E-cadherin interacts by its cytoplasmic domain with reciprocally bound alpha, beta and gamma catenin. Beta-catenin links this complex through alpha-actinin to the cytoskeleton. Functional cadherin-catenin system is important for invasiveness of tumour cells. Beta-catenin level in cytoplasm is controlled by glycogen synthase kinase-3 beta. When activity of this kinase is blocked (e.g. by excessive stimulation of Wnt signaling pathway), hypophosphorylated stable form of beta-catenin accumulates in the cytoplasm, translocates to the nucleus and activates transcription of genes including those that are involved in cell cycle control. As a result, cell division and neoplastic transformation are promoted., CTNNB1, EVR7, MRD19
Gene ID:	1499
UniProt:	P35222
Pathways:	Peptide Hormone Metabolism

Application Details

Application Notes:	Immunocytochemistry: Positive control: HT29 human colon adenocarcinoma cell line. Western blotting: Positive control: HT29 human colon adenocarcinoma cell line, FHC human cell line, DLD1 human colon adenocarcinoma cell line, KW1 murine cell line, C57MG murine cell line, 3T3 murine fibroblast cell line. Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining.
Restrictions:	For Research Use only

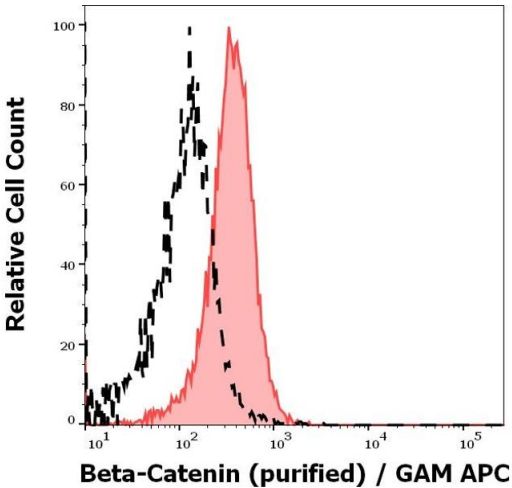
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.

Handling

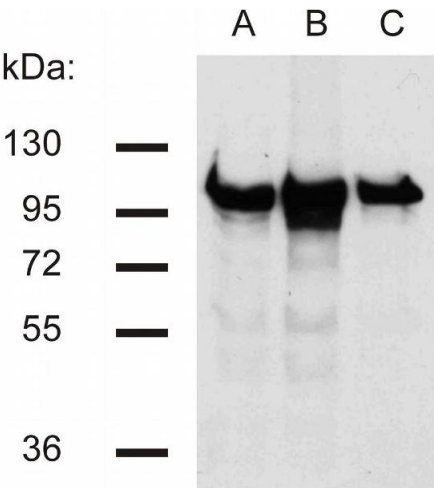
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Images



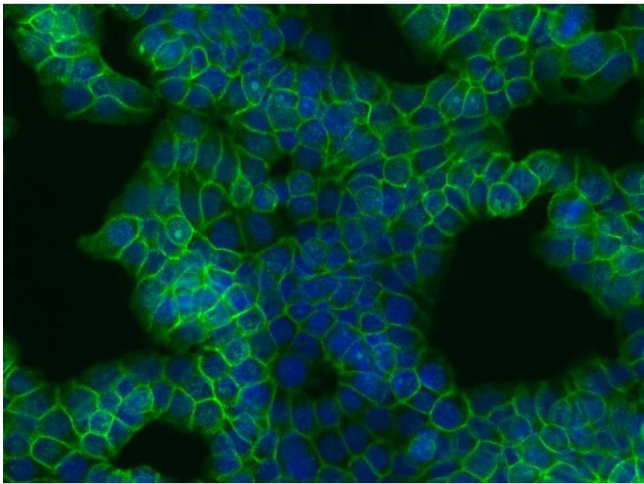
Flow Cytometry

Image 1. Separation of MCF-7 cells stained using anti-beta-Catenin (EM-22) purified antibody (concentration in sample 9 µg/mL, GAM APC, red-filled) from MCF-7 cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (intracellular staining).



Western Blotting

Image 2. Western blotting analysis of beta-catenin in murine 3T3 (A), C57 (B) and KW1 (C) cell lines using antibody.



Immunocytochemistry

Image 3. Immunocytochemistry staining of beta-catenin in human colon adenocarcinoma cell line HT29 using EM-22 antibody (green). Cell nuclei visualized by DAPI (blue).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN457419.