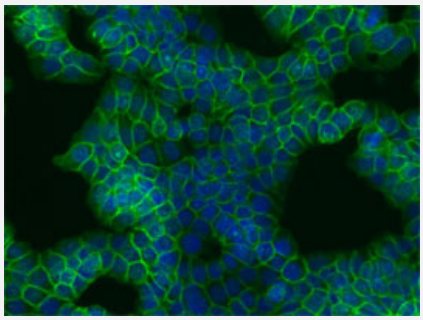
CTNNB1 monoclonal antibody, clone EM-22

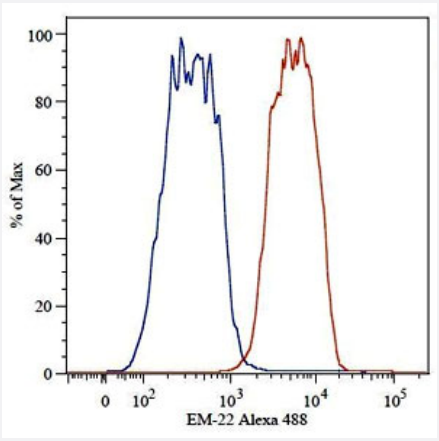
Catalog # MAB6470 Size 100 ug

Applications



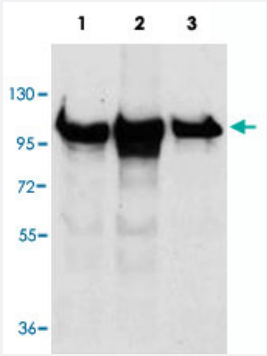
Immunofluorescence

Immunofluorescence staining of beta-catenin in (human colon adenocarcinoma cell line) HT29 using CTNNB1 monoclonal antibody, clone EM-22 (Cat # MAB6470) (green). Cell nuclei visualized by DAPI (blue).



Flow Cytometry

Flow cytometric analysis (intracellular) of beta-catenin in human MCF-7 cell line by CTNNB1 monoclonal antibody, clone EM-22-Alexa Fluor® 488 (red) compared to isotype control (blue).



Western Blot (Cell lysate)

Western blotting analysis of beta-catenin in murine 3T3 (Lane 1), C57 (Lane 2) and KW1 (Lane 3) cell lines using CTNNB1 monoclonal antibody, clone EM-22 (Cat # MAB6470).

Specification

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Product Description	Mouse monoclonal antibody raised against recombinant CTNNB1.
Immunogen	Recombinant protein corresponding to human CTNNB1.
Host	Mouse
Reactivity	Hamster, Human, Mouse
Specificity	This antibody reacts with C-terminal part of beta-catenin, an 88 KDa multi functional protein involved both in cell adhesion and in activation of transcription.
Form	Liquid
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescence staining of beta-catenin in (human colon adenocarcinoma cell line) HT29 using CTNNB1 monoclonal antibody, clone EM-22 (Cat # MAB6470) (green). Cell nuclei visualized by DAPI (blue).

- Flow Cytometry

  Flow cytometric analysis (intracellular) of beta-catenin in human MCF-7 cell line by CTNNB1 monoclonal antibody, clone EM-22-Alexa Fluor® 488 (red) compared to isotype control (blue).

- Immunoprecipitation

- Western Blot (Cell lysate)

  Western blotting analysis of beta-catenin in murine 3T3 (Lane 1), C57 (Lane 2) and KW1 (Lane 3) cell lines using CTNNB1 monoclonal antibody, clone EM-22 (Cat # MAB6470).

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Gene Info — CTNNB1

Entrez GeneID	1499
Gene Name	CTNNB1
Gene Alias	CTNNB, DKFZp686D02253, FLJ25606, FLJ37923
Gene Description	catenin (cadherin-associated protein), beta 1, 88kDa
Omim ID	114550 116806 132600 155255
Gene Ontology	Hyperlink
Gene Summary	Beta-catenin is an adherens junction protein. Adherens junctions (AJs; also called the zonula adherens) are critical for the establishment and maintenance of epithelial layers, such as those lining organ surfaces. AJs mediate adhesion between cells, communicate a signal that neighboring cells are present, and anchor the actin cytoskeleton. In serving these roles, AJs regulate normal cell growth and behavior. At several stages of embryogenesis, wound healing, and tumor cell metastasis, cells form and leave epithelia. This process, which involves the disruption and reestablishment of epithelial cell-cell contacts, may be regulated by the disassembly and assembly of AJs. AJs may also function in the transmission of the 'contact inhibition' signal, which instructs cells to stop dividing once an epithelial sheet is complete.[supplied by OMIM
Other Designations	OTTHUMP00000165222|OTTHUMP00000165223|catenin (cadherin-associated protein), beta 1 (88kD)|catenin beta-1

Publication Reference

- Expression of E-cadherin, beta-catenin and Ki-67 antigen and their reciprocal relationships in mammary adenocarcinomas in bitches.

  Nowak M, Madej JA, Dziegiel P.

  Folia Histochemica et Cytobiologica 2007 Oct; 45(3):233.

  Application: IHC-P, Human, Mammary tumour

- Epstein-Barr virus, beta-catenin, and E-cadherin in gastric carcinomas.

  Jung IM, Chung JK, Kim YA, Kim JE, Heo SC, Ahn YJ, Hwang KT, Kim BG, Lee KL, Kim CW, Kim WH, Chang MS.

  Journal of Korean Medical Science 2007 Oct; 22(5):855.

  Application: IHC-P, Human, Gastric carcinomas

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- HMG box transcription factor TCF-4's interaction with CtBP1 controls the expression of the Wnt target Axin2/Conductin in human embryonic kidney cells.

  Valenta T, Lukas J, Korinek V.

  Nucleic Acids Research 2003 May; 31(9):2369.

  Application: Func, Human, HEK 293 cells

Pathway

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

Disease

- Adenoma
- Adrenal Cortex Neoplasms
- Alzheimer disease
- Birth Weight

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- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Cell Transformation
- Chromosome Aberrations
- Chromosome Deletion
- Cleft Lip
- Cleft Palate
- Cognition
- Colon cancer
- Colorectal Neoplasms
- Diabetes Mellitus
- Edema
- Endometrial Neoplasms
- Ependymoma
- Esophageal Neoplasms
- Fibroma
- Fibromatosis
- Fractures
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Head and Neck Neoplasms
- Kidney Failure
- Kidney Neoplasms

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- Laryngeal Neoplasms
- Leukemia
- Liver Neoplasms
- Lung Neoplasms
- Meningeal Neoplasms
- Meningioma
- Microsatellite Instability
- Mouth Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Obesity
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pharyngeal Neoplasms
- Prostatic Neoplasms
- Pulmonary Disease
- Recurrence
- Spinal Fractures
- Stomach Neoplasms
- Urinary Bladder Neoplasms
- Werner syndrome
- Wilms Tumor

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