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30-1388: Anti-beta-Catenin Monoclonal Antibody (Clone:EM-22)

Clonality: Monoclonal **Clone Name:** EM-22 FACS Application: Human Reactivity: Gene: CTNNB1 Gene ID: 1499 **Uniprot ID:** P35222 Purified Format:

Alternative Name : Beta-catenin, CTNNB

Isotype: Mouse IgG1

Immunogen Information: Recombinant human beta-catenin

Description

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.

Product Info

Amount: 0.1 mg

Purification : Purified by protein-A affinity chromatography

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

Application Note

Western Blotting *Positive control:* HT29 human colon adenocarcinoma cell line, FHC human cell line, DLD1 human colon adenocarcinoma cell line

KW1 mouse cell line C57MG mouse cell line, 3T3 mouse fibroblast cell line

Immunocytochemistry Positive control: HT29 human colon adenocarcinoma cell line



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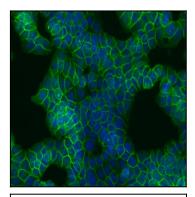


Figure 1: Immunocytochemistry staining of beta-catenin in human colon adenocarcinoma cell line HT29 using EM-22 antibody (green). Cell nuclei visualized by DAPI (blue).

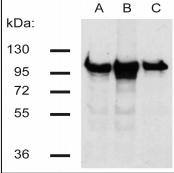


Figure 2: Western blotting analysis of beta-catenin in murine 3T3 (A), C57 (B) and KW1 (C) cell lines using EM-22 antibody.