Datasheet for ABIN967860

anti-JUP antibody (AA 553-738)

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Overview

Quantity:	150 µg
Target:	JUP
Binding Specificity:	AA 553-738
Reactivity:	Human, Mouse, Rat, Chicken, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This JUP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human gamma-Catenin aa. 553-738
Clone:	15-gamma
Isotype:	IgG2a
Cross-Reactivity:	Chicken, Dog (Canine), Mouse (Murine), Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	JUP
Alternative Name:	gamma-Catenin (JUP Products)
Background:	Gamma-Catenin (plakoglobin) was identified as a compenent of desmosomes where it associates with desmoglein. gamma-Catenin and beta-Catenin are closely related proteins that have significant homology with the Drosophila armadillo protein. In addition to complexing with E-Cadherin, gamma-Catenin and beta-Catenin have been observed in association with the intracellular domain of N-Cadherin. It has been proposed that one molecule of alpha-Catenin and at least one molecule of beta-Catenin and gamma-Catenin simultaneously bind to a single cadherin molecule. A 19 amino acid sequence of desmoglein (Dsg1) was found to be critical for binding of gamma-Catenin. This region has significant homology to the catenin-binding domain of classical cadherins, thus suggesting a common mechanism for gamma-Catenin localization at both adherens junctions and desmosomes. This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.
Molecular Weight:	82 kDa
Pathways:	Cell-Cell Junction Organization, Maintenance of Protein Location

Application Details

Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

Akins, Greer: "Axon behavior in the olfactory nerve reflects the involvement of catenin-cadherin mediated adhesion." in: **The Journal of comparative neurology**, Vol. 499, Issue 6, pp. 979-89, (2007) (PubMed).

Mary, Charrasse, Meriane, Comunale, Travo, Blangy, Gauthier-Rouvière: "Biogenesis of N-cadherin-dependent cell-cell contacts in living fibroblasts is a microtubule-dependent kinesin-driven mechanism." in: **Molecular biology of the cell**, Vol. 13, Issue 1, pp. 285-301, (2002) (PubMed).

Merritt, Berika, Zhai, Kirk, Ji, Hardman, Garrod: "Suprabasal desmoglein 3 expression in the epidermis of transgenic mice results in hyperproliferation and abnormal differentiation." in: **Molecular and cellular biology**, Vol. 22, Issue 16, pp. 5846-58, (2002) (PubMed).

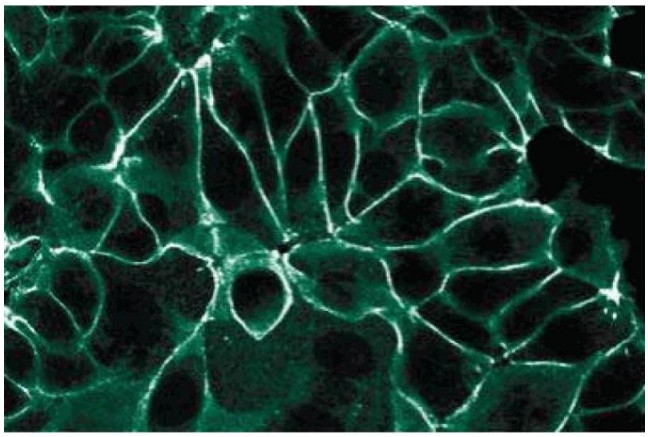
Peng, Mandai, Nakanishi, Ikeda, Asada, Momose, Shibamoto, Yanagihara, Shiozaki, Monden, Takeichi, Takai: "Restoration of E-cadherin-based cell-cell adhesion by overexpression of nectin in HSC-39 cells, a human signet ring cell gastric cancer cell line." in: **Oncogene**, Vol. 21, Issue 26 , pp. 4108-19, (2002) (PubMed).

Müller, Choidas, Reichmann, Ullrich: "Phosphorylation and free pool of beta-catenin are regulated by tyrosine kinases and tyrosine phosphatases during epithelial cell migration." in: **The Journal of biological chemistry**, Vol. 274, Issue 15, pp. 10173-83, (1999) (PubMed).

There are more publications referencing this product on: Product page

Western Blotting

Image 1. Western blot analysis of gamma-Catenin on a HeLa lysate. Lane 1: 1:2000, lane 2: 1:4000, lane 3: 1:8000 dilution of the anti- gamma-Catenin antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of MCF7 cells.

Image 3.