

Hycult biotechnology

JUP/Plakoglobin/Gamma Catenin, Cl 15F11, Hu mAb

Catalog No.	HM2116	Quantity:	100 µg
Description:	Plakoglobin, also known as gamma-catenin belongs together with alpha- and beta catenin to the catenin family. Catenins mediates cell-cell adhesion by interaction with cadherins. Plakoglobin is found in desmosomes and adherens junctions. Plakoglobin is highly homologous to beta-catenin although its function differs from that of beta-catenin. Whereas beta-catenin has been found in potentiating hyperproliferation and tumor formation, plakoglobin can suppress tumorigenicity. Overexpression of plakoglobin has been shown to suppress cell proliferation and cell tumorigenicity in animals. Furthermore reduced plakoglobin expression has been found in tumor tissues and metastatic lesions of renal cells, esophageal carcinomas and in skin carcinomas. The monoclonal antibody 15F11 cross reacts with rat and weakly with mouse.		
Concentration:	100 µg/ml		
Specificity:	Human JUP/Plakoglobin/Gamma Catenin		
Host:	Mouse		
Isotype:	IgG ₁		
Clone:	15F11		
Formulation:	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Applications	The monoclonal antibody 15F11 can be used for Western blotting, immuno precipitation and immunofluorescence with cells fixed in paraformaldehyde. For Western blotting and immunofluorescence dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.		
Storage & Stability:	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.		
References:	<ol style="list-style-type: none">1. Sacco, P et al; Identification of plakoglobin domains required for association with N-cadherin and alpha-catenin. <i>J Biol Chem</i> 1995, <i>34</i>: 202012. Wahl, J et al; Plakoglobin domains that define its association with the desmosomal cadherins and the classical cadherins: identification of unique and shared domains. <i>J Cell Sci</i> 1996, <i>109</i>: 11433. Lewis, J et al; Cross-talk between adherens junctions and desmosomes depends on plakoglobin. <i>J Cell Biol</i> 1997, <i>136</i>: 9194. Amitay, R et al; Reduced expression of plakoglobin correlates with adverse outcome in patients with neuroblastoma. <i>Am J Pathol</i> 2001, <i>159</i>: 43		
Also available:	HM2112: Monoclonal antibody against human beta-Catenin, clone 9F2 HM2113: Monoclonal antibody against human Desmoglein-1, clone 27B2 HM2114: Monoclonal antibody against human Desmoglein-2, clone 6D8 HM2115: Monoclonal antibody against human Desmoglein-3, clone 5G11 HM2118: Monoclonal antibody against human alpha-Catenin, clone 1G5		

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Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com