For Research Use Only

Beta Catenin Monoclonal antibody

Catalog Number:66379-1-Ig Featured Product 81 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
66379-1-Ig

Size:
150ul , Concentration: 1500 μg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

GenBank Accession Number:
NM_001904

GeneID (NCBI):
1499

Full Name:
catenin (cadherin-associated protein), beta 1, 88kDa

Calculated MW:
781 aa, 86 kDa

Observed MW:
92 kDa

Purification Method:
Protein A purification

CloneNo.:
1B8A1

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:10000-1:40000
IF 1:750-1:3000

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, IP, WB

Species Specificity:
human, mouse, rat, pig, rabbit

Cited Species:
human, rat, sheep, mouse, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, pig brain tissue, rat brain tissue, mouse brain tissue, HeLa cells, HEK-293 cells, MCF-7 cells, LNCaP cells, HSC-T6 cells, NIH/3T3 cells, rabbit brain tissue

IP : mouse brain tissue,

IHC : mouse colon tissue, human skin cancer tissue, human liver cancer tissue, rat colon tissue, human breast cancer tissue, human colon tissue

IF : MCF-7 cells, human liver cancer tissue, human skin cancer tissue

Background Information

β-Catenin, also known as CTNNB1, is an evolutionarily conserved, multifunctional intracellular protein. β-Catenin was originally identified in cell adherens junctions (AJs) where it functions to bridge the cytoplasmic domain of cadherins to a-catenin and the actin cytoskeleton. Besides its essential role in the AJs, β-catenin is also a key downstream component of the canonical Wnt pathway that plays diverse and critical roles in embryonic development and adult tissue homeostasis. The Wnt/β-catenin pathway is also involved in the activation of other intracellular messengers such as calcium fluxes, JNK, and SRC kinases. Deregulation of β-catenin activity is associated with multiple diseases including cancers. (PMID: 22617422; 18334222)

Notable Publications

Author	Pubmed ID	Journal	Application
Panpan Zhang	30272329	Int J Mol Med	WB
Tao Sun	34520626	Kaohsiung J Med Sci	WB,IF
Haifeng Zhang	34428354	FEBS Open Bio	WB

Storage

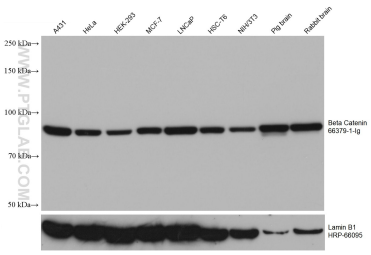
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

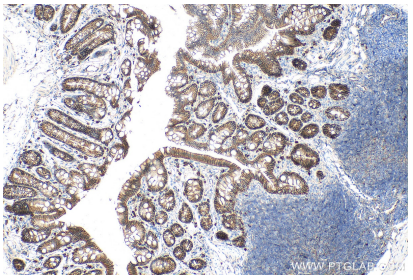
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

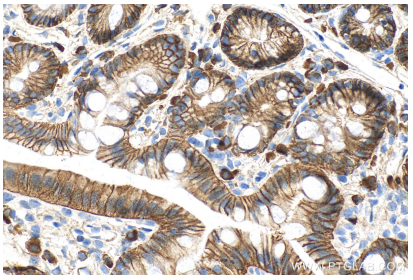
Selected Validation Data



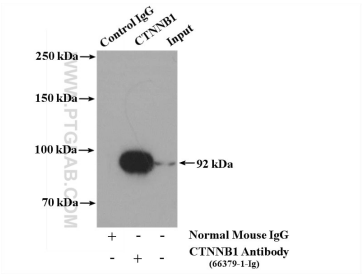
Various lysates were subjected to SDS PAGE followed by western blot with 66379-1-Ig (Beta Catenin antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



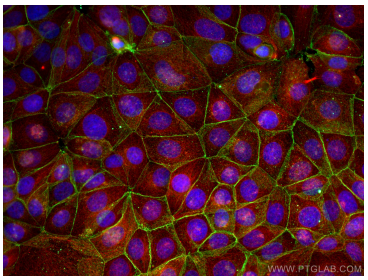
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 66379-1-Ig (Beta Catenin antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



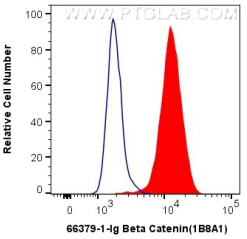
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 66379-1-Ig (Beta Catenin antibody) at dilution of 1:20000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-beta-Catenin (IP:66379-1-Ig, 4ug; Detection:66379-1-Ig 1:2000) with mouse brain tissue lysate 4400 ug.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Beta Catenin antibody (66379-1-Ig, Clone: 1B8A1) at dilution of 1:1500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, red).



1X10^6 MCF-7 cells were intracellularly stained with 0.5 ug Anti-Human Beta Catenin (66379-1-Ig, Clone:1B8A1) (red) labeled with FlexAble CoraLite® Plus 555 Antibody Labeling Kit for Mouse IgG1 (KFA022), or 0.5 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).