

Anti-Cyclin B1 CCNB1 Monoclonal Antibody

Catalog Number: M00745-1

About CCNB1

TRPC6, also known as TRP6, short transient receptor potential channel 6 and transient receptor potential cation channel subfamily C member 6, is thought to form a receptor-activated non-selective calcium permeant cation channel. TRPC6 is probably operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. It is activated by diacylglycerol (DAG) in a membrane-delimited fashion, independently of protein kinase C and may not to be activated by intracellular calcium store depletion. Defects in this gene are a cause of focal segmental glomerulosclerosis (FSGS). Expression of this protein has been reported in tissues such as placenta, lung, spleen, ovary, small intestine, and renal podocytes. Immunohistochemistry studies using polyclonal antibodies to this target have shown moderate to strong staining in cell types such as neurons, breast, respiratory, squamous and prostate epithelium, epidermis, placental trophoblasts, dendritic cells, and subsets of immune cells, and faint to moderate staining of adrenal, colon, ganglion cells, hepatocytes, heart, and testis.

Overview

Product Name	Anti-Cyclin B1 CCNB1 Monoclonal Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-Cyclin B1 CCNB1 Monoclonal Antibody catalog # M00745-1. Tested in ELISA, Flow Cytometry, IF, WB applications. This antibody reacts with Human, Rat.
Application	ELISA, Flow Cytometry, IF, WB
Clonality	Monoclonal 5G6
Formulation	Ascitic fluid containing 0.03% sodium azide.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P14635

Technical Details

Immunogen	Purified recombinant fragment of human Cyclin B1 expressed in E. Coli.
Predicted Reactive Species	Chimpanzee
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml

Purification	Affinity purification
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB 1:500-1:2000</p> <p>IF 1:200-1:1000</p> <p>FC 1:200-1:400</p> <p>ELISA 1:10000</p>

Anti-Cyclin B1 CCNB1 Monoclonal Antibody (M00745-1) Images

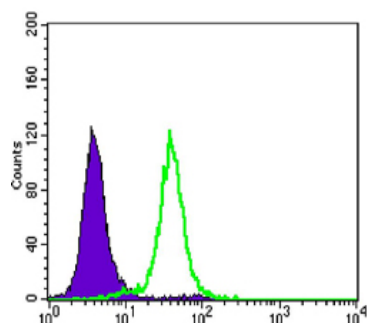


Figure 3. Flow Cytometry validation of CCNB1 using Anti-Cyclin B1 CCNB1 Monoclonal Antibody (M00745-1).

Flow cytometric (FCM) analysis of HeLa cells using Cyclin B1 Monoclonal Antibody (green) and negative control (purple).

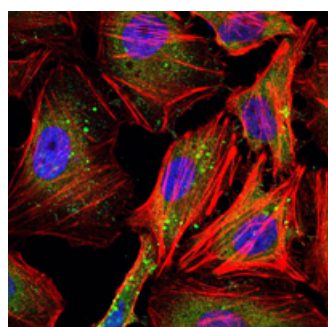


Figure 2. Immunofluorescent staining data of CCNB1 using Anti-Cyclin B1 CCNB1 Monoclonal Antibody (M00745-1).

Immunofluorescence (IF) analysis of HeLa cells using Cyclin B1 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

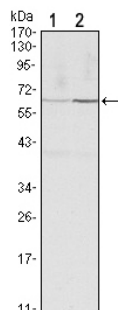


Figure 1. Western blotting validation for Anti-Cyclin B1 CCNB1 Monoclonal Antibody M00745-1

Western Blot (WB) analysis using Cyclin B1 Monoclonal Antibody against HeLa (1) and PC-12 (2) cell lysate. Electrophoresis was performed on a SDS-PAGE gel. To determine SDS-PAGE gel concentration

4 Publications Citing This Product

1. PubMed ID: 32234541, Wang J,Wang L,Chen S,Peng H,Xiao L,E Du,Liu Y,Lin D,Wang Y,Xu Y,Yang K.PKMYT1 is associated with prostate cancer malignancy and may serve as a therapeutic target.Gene.2020 Jun 20;744:144608.doi:10.1016/j. gene.2020.144608.Epub 2020 Mar 29.PMID:32234541.
2. PubMed ID: 21310960, Yang H, Gu J, Zheng Q, Li M, Lian X, Miao J, Jiang J, Wei W. J Biol Chem. 2011 Apr 1;286(13):11865-74. Doi: 10.1074/Jbc.M110.136929. Epub 2011 Feb 10. Rpb5-Mediating Protein Is Required For The Proliferation Of Hepatocellular Carcinoma Cells.
3. PubMed ID: 27039827, mTORC1 regulates PTHrP to coordinate chondrocyte growth, proliferation and differentiation

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