

Datasheet for ABIN2854598

anti-PLCH1 antibody

3 Images

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Overview

Quantity:	100 µL
Target:	PLCH1 (PLCh1)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLCH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human PLCH1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit polyclonal antibody to PLCH1 (phospholipase C, eta 1) PLCH1 antibody [N2C1], Internal
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	PLCH1 (PLCh1)
Alternative Name:	phospholipase C eta 1 (PLCh1 Products)

Target Details

Background: PLCH1 is a member of the PLC-eta family of the phosphoinositide-specific phospholipase C (PLC) superfamily of enzymes that cleave phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) to generate second messengers inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG) (Hwang et al., 2005 [PubMed 15702972]).[supplied by OMIM]

Cellular Localization: Cytoplasm , Membrane

Molecular Weight: 189 kDa

Gene ID: 23007

UniProt: [Q4KWH8](#)

Application Details

Application Notes: WB: 1:500-1:3000. Optimal dilutions/concentrations should be determined by the researcher.
Not tested in other applications.

Comment: Positive Control: A431 , HepG2

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.93 mg/mL

Buffer: 0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal

Preservative: Thimerosal (Merthiolate)

Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in: Manzione, Rombouts, Steklov, Pasquali, Sablina, Gelens, Qian, Bollen: "Co-regulation of the antagonistic RepoMan:Aurora-B pair in proliferating cells." in: **Molecular biology of the cell**, Vol.

31, Issue 6, pp. 419-438, (2020) ([PubMed](#)).

Huang, Zhang, Jiang, Zhang, Xiang, Ren: "FoxM1 Induced Paclitaxel Resistance via Activation of the FoxM1/PHB1/RAF-MEK-ERK Pathway and Enhancement of the ABCA2 Transporter." in:

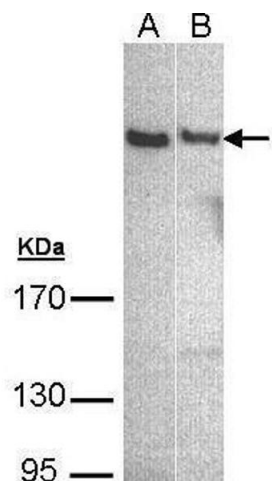
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Cohn, Feldman, Weil, Kublanovsky, Levy: "Chromatin associated SETD3 negatively regulates VEGF expression." in: **Scientific reports**, Vol. 6, pp. 37115, (2018) ([PubMed](#)).

Xie, Wu, Mack, Yang, Kim, Hubert, Flavahan, Chu, Bao, Rich: "CDC20 maintains tumor initiating cells." in: **Oncotarget**, Vol. 6, Issue 15, pp. 13241-54, (2016) ([PubMed](#)).

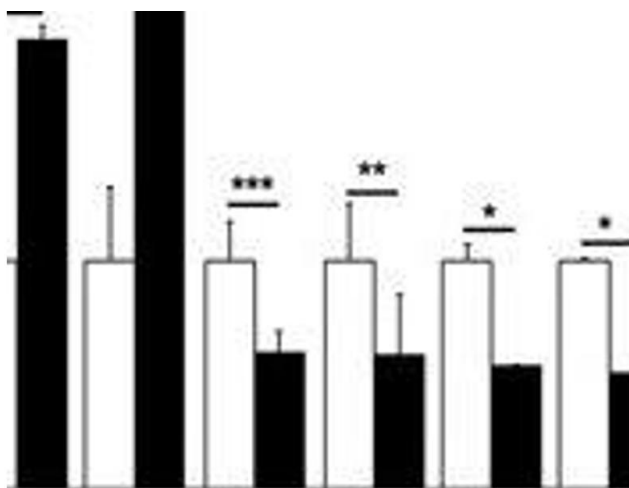
Sanders, Ross-Innes, Beraldi, Carroll, Balasubramanian: "Genome-wide mapping of FOXM1 binding reveals co-binding with estrogen receptor alpha in breast cancer cells." in: **Genome biology**, Vol. 14, Issue 1, pp. R6, (2014) ([PubMed](#)).

Images



Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A: A431 , B: Hep G2 , 5% SDS PAGE antibody diluted at 1:500



Immunohistochemistry (Frozen Sections)

Image 2. Inverse correlation between DMP and mRNA levels of target genes. RT-PCR analysis shows significant increases in mRNA levels of AT-hook transcription factor (AKNA), Emopamil Binding Protein Like (EBPL), HECT domain and RCC1-like domain containing protein 6 (HERC6), and Secreted frizzled related protein 1 (SFRP1) in demyelinated MS hippocampus (n=4) compared to myelinated MS hippocampus (n=4). Hyper-methylation within Nescient helix-loop-helix 2 (NHLH2), Phospholipase C eta 1 (PLCH1), Transmembrane protein 132B (TMEM132B), and WD repeat domain 81 (WDR81) following demyelination led to significant decreases in mRNA levels. Immunohistochemistry showing cellular expression of SFRP1 and PLCH1 in myelinated (B,D) and demyelinated hippocampus (C,E), with predominant expression in hippocampal neurons. Scale Bars: B-E: 30 μ m, Error bars indicate+S.E.M., * p<0.05, **p<0.005, ***p<0.0005, ****p<0.000005. - figure provided by CiteAb. Source: PMID28821749



Immunohistochemistry (Frozen Sections)

Image 3. Inverse correlation between DMP and mRNA levels of target genes. RT-PCR analysis shows significant increases in mRNA levels of AT-hook transcription factor (AKNA), Emopamil Binding Protein Like (EBPL), HECT domain and RCC1-like domain containing protein 6 (HERC6), and Secreted frizzled related protein 1 (SFRP1) in demyelinated MS hippocampus (n=4) compared to myelinated MS hippocampus (n=4). Hyper-methylation within Nescient helix-loop-helix 2 (NHLH2), Phospholipase C eta 1 (PLCH1), Transmembrane protein 132B (TMEM132B), and WD repeat domain 81 (WDR81) following demyelination led to significant decreases in mRNA levels. Immunohistochemistry showing cellular expression of

SFRP1 and PLCH1 in myelinated (B,D) and demyelinated hippocampus (C,E), with predominant expression in hippocampal neurons. Scale Bars: B-E: 30 μ m, Error bars indicate+S.E.M., * $p<0.05$, ** $p<0.005$, *** $p<0.0005$, **** $p<0.000005$. - figure provided by CiteAb. Source: PMID28821749