Datasheet for ABIN1042659

anti-PPP2CA antibody (meLys309)

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Overview

Quantity:	0.1 mL
Target:	PPP2CA
Binding Specificity:	meLys309
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PPP2CA antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	A KLH-coupled peptide with the sequence: KLH-C-ßA-RRTPDYFL-OMe. The c-terminal sequence (as well as the carboxy-methylation) is absolutely conserved from human, mouse to yeast
Sequence:	KLH-C-ßA-RRTPDYFL-OMe
Clone:	2A10
Isotype:	IgG1
Specificity:	Recognises specifically the C-terminally methylated form of PP2A C subunit
Cross-Reactivity:	Saccharomyces cerevisiae
Cross-Reactivity (Details):	Mouse, Rat, Human. Predicted to work with: Saccharomyces cerevisiae
Purification:	Protein G

Target Details

Target:	PPP2CA
Alternative Name:	PP2A alpha (PPP2CA Products)
Background:	Synonyms: PP2A alpha antibody,PP2A C antibody,PP2A-alpha antibody,PP2AA_HUMAN antibody,PP2Ac antibody,PP2CA antibody,PPP2CA antibody,Protein phosphatase 2, catalytic subunit, alpha isoform antibody,Replication protein C antibody
Gene ID:	5515, 19052, 24672
OMIM:	176915
UniProt:	P67775, P63330, P63331
Pathways:	PI3K-Akt Signaling, Mitotic G1-G1/S Phases, Hepatitis C, Toll-Like Receptors Cascades

Application Details

Application Notes:	Optimal antibody dilution should be determined by titration, however as a guideline try, WB: 1,500. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa)
Comment:	Myeloma, fusion partners: X63-Ag8.653
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Purified antibody (from supernatant) containing PBS + 0.1 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Publications

Product cited in:	Benziane, Björnholm, Pirkmajer, Austin, Kotova, Viollet, Zierath, Chibalin: "Activation of AMP-activated protein kinase stimulates Na+,K+-ATPase activity in skeletal muscle cells." in: **The Journal of biological chemistry**, Vol. 287, Issue 28, pp. 23451-63, (2012) (PubMed).

Publications

Li, Huang, Liang, Fu, Guo, Xu: "Microcystin-LR (MCLR) induces a compensation of PP2A activity mediated by ?4 protein in HEK293 cells." in: **International journal of biological sciences**, Vol. 7, Issue 6, pp. 740-52, (2011) (PubMed).

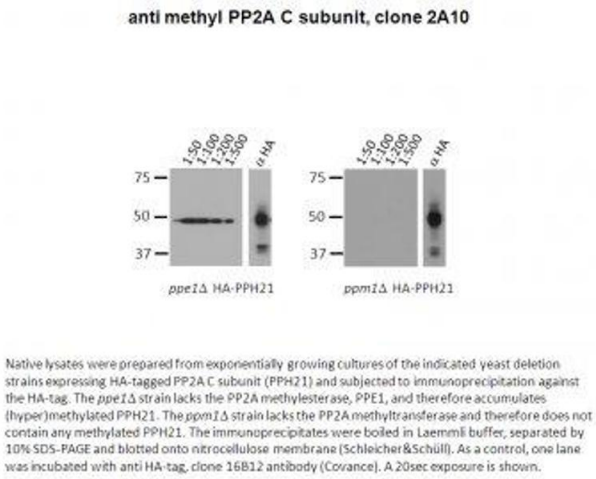
Finnegan, Mackey, Cotter: "A stress survival response in retinal cells mediated through inhibition of the serine/threonine phosphatase PP2A." in: **The European journal of neuroscience**, Vol. 32, Issue 3, pp. 322-34, (2010) (PubMed).

Hombauer, Weismann, Mudrak, Stanzel, Fellner, Lackner, Ogris: "Generation of active protein phosphatase 2A is coupled to holoenzyme assembly." in: **PLoS biology**, Vol. 5, Issue 6, pp. e155 , (2007) (PubMed).

Sontag, Nunbhakdi-Craig, Sontag, Diaz-Arrastia, Ogris, Dayal, Lentz, Arning, Bottiglieri: "Protein phosphatase 2A methyltransferase links homocysteine metabolism with tau and amyloid precursor protein regulation." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 27, Issue 11, pp. 2751-9, (2007) (PubMed).

There are more publications referencing this product on: Product page

Images



Native lysates were prepared from exponentially growing cultures of the indicated yeast deletion strains expressing HA-tagged PP2A C subunit (PPH21) and subjected to immunoprecipitation against the HA-tag. The *ppe1Δ* strain lacks the PP2A methylesterase, PPE1, and therefore accumulates (hyper)methylated PPH21. The *ppm1Δ* strain lacks the PP2A methyltransferase and therefore does not contain any methylated PPH21. The immunoprecipitates were boiled in Laemmli buffer, separated by 10% SDS-PAGE and blotted onto nitrocellulose membrane (Schleicher&Schüll). As a control, one lane was incubated with anti HA-tag, clone 16B12 antibody (Covance). A 20sec exposure is shown.

Image 1.