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PPP1R1B Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1894a

Product Information

Application	WB, FC, E
Primary Accession	Q9UD71
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2G6D9
Isotype	IgG1
Calculated MW	22963
Description	This gene encodes a bifunctional signal transduction molecule. Dopaminergic and glutamatergic receptor stimulation regulates its phosphorylation and function as a kinase or phosphatase inhibitor. As a target for dopamine, this gene may serve as a therapeutic target for neurologic and psychiatric disorders. Multiple transcript variants encoding different isoforms have been found for this gene.
Immunogen	Purified recombinant fragment of human PPP1R1B (AA: 95-204) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	84152
Other Names	Protein phosphatase 1 regulatory subunit 1B, DARPP-32, Dopamine- and cAMP-regulated neuronal phosphoprotein, PPP1R1B, DARPP32
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PPP1R1B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PPP1R1B
Synonyms	DARPP32

Function	Inhibitor of protein-phosphatase 1.
Cellular Location	Cytoplasm.

Background

This gene encodes a transcription factor which is a member of a small family of basic leucine zipper (bZIP) proteins. The encoded transcription factor regulates genes which contain antioxidant response elements (ARE) in their promoters; many of these genes encode proteins involved in response to injury and inflammation which includes the production of free radicals. Multiple transcript variants encoding different isoforms have been found for this gene. ;

References

1. Med Mol Morphol. 2011 Dec;44(4):190-9. 2. Breast Cancer Res Treat. 2010 Feb;120(1):47-57.

Images

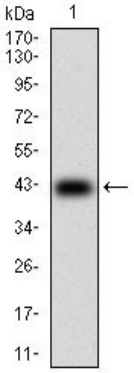

Figure 1: Western blot analysis using PPP1R1B mAb against human PPP1R1B (AA: 95-204) recombinant protein. (Expected MW is 38.3 kDa)

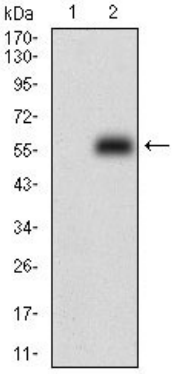

Figure 2: Western blot analysis using PPP1R1B mAb against HEK293 (1) and PPP1R1B (AA: 95-204)-hIgGFc transfected HEK293 (2) cell lysate.

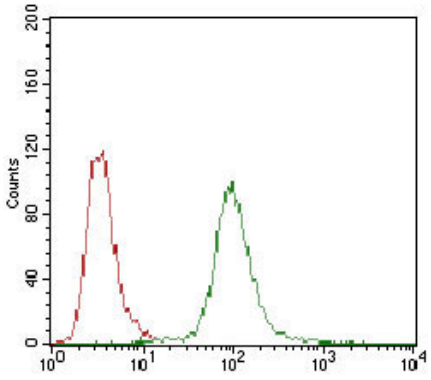

Figure 3: Flow cytometric analysis of Hela cells using PPP1R1B mouse mAb (green) and negative control (red).