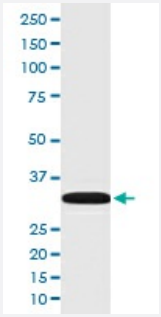
PPP1R1B monoclonal antibody, clone CIO-16

Catalog # MAB19971 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Rat brain lysate with PPP1R1B monoclonal antibody.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human PPP1R1B.
Immunogen	A synthetic peptide corresponding to human PPP1R1B.
Host	Rabbit
Reactivity	Human, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:20) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

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Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunofluorescence
- Immunocytochemistry
- Immunoprecipitation
- Western Blot (Cell lysate)

  Western blot analysis of Rat brain lysate with PPP1R1B monoclonal antibody.

Gene Info — PPP1R1B

Entrez GeneID	84152
Protein Accession#	Q9UD71
Gene Name	PPP1R1B
Gene Alias	DARPP-32, DARPP32, FLJ20940
Gene Description	protein phosphatase 1, regulatory (inhibitor) subunit 1B
Omim ID	604399
Gene Ontology	Hyperlink

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Gene Summary	Midbrain dopaminergic neurons play a critical role in multiple brain functions, and abnormal signaling through dopaminergic pathways has been implicated in several major neurologic and psychiatric disorders. One well-studied target for the actions of dopamine is DARPP32. In the densely dopamine- and glutamate-innervated rat caudate-putamen, DARPP32 is expressed in medium-sized spiny neurons (Ouimet and Greengard, 1990 [PubMed 2191086]) that also express dopamine D1 receptors (Walaas and Greengard, 1984 [PubMed 6319627]). The function of DARPP32 seems to be regulated by receptor stimulation. Both dopaminergic and glutamatergic (NMDA) receptor stimulation regulate the extent of DARPP32 phosphorylation, but in opposite directions (Halpain et al., 1990 [PubMed 2153935]). Dopamine D1 receptor stimulation enhances cAMP formation, resulting in the phosphorylation of DARPP32 (Walaas and Greengard, 1984 [PubMed 6319627]); phosphorylated DARPP32 is a potent protein phosphatase-1 (see MIM 176875) inhibitor (Hemmings et al., 1984 [PubMed 6087160]). NMDA receptor stimulation elevates intracellular calcium, which leads to activation of calcineurin and dephosphorylation of phospho-DARPP32, thereby reducing the phosphatase-1 inhibitory activity of DARPP32 (Halpain et al., 1990 [PubMed 2153935]).[supplied by OMIM
Other Designations	OTTHUMP00000164276|dopamine and cAMP regulated phosphoprotein|dopamine and cAMP-regulated neuronal phosphoprotein 32|protein phosphatase 1, regulatory (inhibitor) subunit 1B (dopamine and cAMP regulated phosphoprotein, DARPP-32)

Disease

- Alzheimer disease
- Anorexia Nervosa
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Bipolar Disorder
- Breast cancer
- Breast Neoplasms
- Bulimia
- Cardiovascular Diseases
- Cognition
- Diabetes Mellitus
- Disease Models
- Edema
- Genetic Predisposition to Disease

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- Intelligence Tests
- Mental Disorders
- NARP
- Neuropsychological Tests
- Personality Tests
- Schizophrenia
- Schizophrenic Psychology
- Tobacco Use Disorder
- Weight Gain
- Werner syndrome

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