PPP1R1B (Human) Cell-Based ELISA Kit

Catalog # KA2732 Size 1 Kit

Specification

Product Description	PPP1R1B (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of PPP1R1B expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Omim ID	604399
Gene Ontology	Hyperlink
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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Edema
- Genetic Predisposition to Disease
- Intelligence Tests
- Mental Disorders
- NARP
- Neuropsychological Tests
- Personality Tests
- Schizophrenia
- Schizophrenic Psychology
- Tobacco Use Disorder
- Weight Gain
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.