

Mouse Protein phosphatase 1 regulatory subunit 1B (PPP1R1B) ELISA Kit

Catalog No: #EK8360

Package Size: #EK8360-1 48T #EK8360-2 96T

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Mouse Protein phosphatase 1 regulatory subunit 1B (PPP1R1B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DARPP-32; DARPP32; FLJ20940; OTTHUMP00000164276[dopamine and cAMP regulated phosphoprotein dopamine and cAMP-regulated neuronal phosphoprotein 32 protein phosphatase 1; regulatory (inhibitor) subunit]
Accession No.	Q60829
Uniprot	Q60829
GeneID	19049;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.054 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PPP1R1B in samples. An antibody specific for PPP1R1B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPPP1R1B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PPP1R1B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PPP1R1B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**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.In the densely dopamine- and glutamate-innervated rat caudate-putamen, DARPP32 is expressed in medium-sized spiny neurons that also express dopamine D1 receptors. 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. Dopamine D1 receptor stimulation enhances cAMP

formation, resulting in the phosphorylation of DARPP32; phosphorylated DARPP32 is a potent protein phosphatase-1.

Note: This product is for in vitro research use only