

DARPP-32 ELISA Kit | PPP1R1B elisa kit

DARPP-32 (Phospho-Thr34) Phospho Sandwich ELISA Kit

CATALOG # AAA318622	REACTIVITY Human, Mouse, Rat
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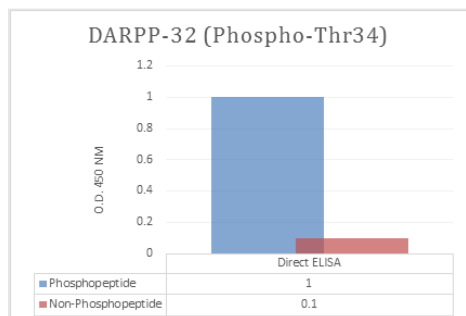
PRODUCT SYNONYMS

DARPP-32; DARPP-32 (Phospho-Thr34) Phospho Sandwich ELISA Kit; Dopamine- and cAMP-regulated neuronal phosphoprotein; IPPD; Neuronal phosphoprotein
DARPP-32; PPP1R1B; PPP1R1B elisa kit

PRODUCT SPECIFICATIONS

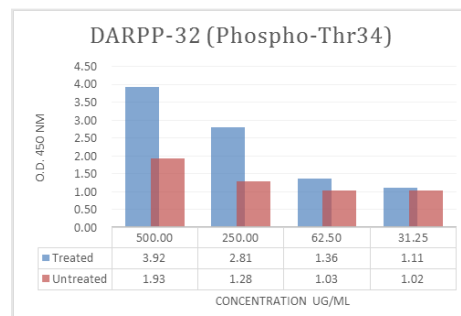
Reactivity	Human, Mouse, Rat
Specificity	The DARPP-32 (Phospho-Thr34) Phospho Sandwich ELISA Kit is a convenient, lysate- free, high throughput and sensitive assay kit that can detect DARPP-32 protein phosphorylation and expression profile in cell lysates. The kit can be used for measuring the relative amounts of phosphorylated DARPP-32 in cultured cells as well as screening for the effects that various treatments, inhibitors (ie. siRNA or chemicals), or activators have on DARPP-32 phosphorylation.
Sequence Length	168
Assay Type	Quantitative Sandwich
Preparation and Storage	Store entire kit at 4 degree C until use. Kit expiration is 3 months from date of shipment.

IMAGES



ELISA

Enzyme-Linked Immunosorbent Assay (ELISA) for immunogen phosphor-peptide (left) and non-phospho peptide (right), using Anti-DARPP-32 (Phospho-Thr34) Antibody.



Application Data

HepG2 cells were grown to 90% confluency and were stimulated with PMA 150 ng/mL and incubated for 30 mins. Cells were immediately lysed thereafter and measured for Total Protein Concentration and O.D. 450 nm of DARPP-32 P-Thr34 versus untreated HepG2 lysates.

ADDITIONAL INFORMATION

Related Product Information for PPP1R1B elisa kit	Principle of the Assay: The Phospho Sandwich DARPP-32 (Phospho-Thr34) ELISA Kit contains the components necessary for semi-quantitative determination of DARPP-32 (Phospho-Thr34) concentrations within experimental cell lysate samples. This particular immunoassay utilizes the traditional "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope DARPP-32 (Phospho-Thr34) while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer where data analysis may begin.
Product Categories/Family for PPP1R1B elisa kit	Phospho Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	335057524
NCBI GeneID	84152
NCBI Accession #	NP_001229393.1
NCBI GenBank Nucleotide #	NP_001229393.1
UniProt Accession #	Q9UD71
NCBI Official Full Name	protein phosphatase 1 regulatory subunit 1B isoform 2
NCBI Official Synonym Full Names	protein phosphatase 1 regulatory inhibitor subunit 1B
NCBI Official Symbol	PPP1R1B
NCBI Official Synonym Symbols	DARPP32; DARPP-32
NCBI Protein Information	protein phosphatase 1 regulatory subunit 1B
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 1B
UniProt Gene Name	PPP1R1B
UniProt Synonym Gene Names	DARPP32
UniProt Entry Name	PPR1B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ppp1r1b-human-mouse-rat-elisa-kits/darpp-32/318622>