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PhosphoPlus[®] DARPP-32 (Thr34) Antibody Duet



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For Research Use Only. Not for Use in Diagnostic Procedures.

UniProt ID:	Entrez-Gene Id:
#Q9UD71	84152

Product Includes	Product #	Quantity	Mol. Wt.	Isotype/Source
Phospho-DARPP-32 (Thr34) (D27A4) Rabbit mAb	12438	100 µl	32 kDa	Rabbit IgG
DARPP-32 (19A3) Rabbit mAb	2306	100 µl	32 kDa	Rabbit

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	PhosphoPlus [®] Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody</i> .
Background	DARPP-32 (dopamine and cyclic AMP-regulated phosphoprotein, relative molecular mass 32,000) is a cytosolic protein highly enriched in medium-sized spiny neurons of the neostriatum (1). It is a bifunctional signaling molecule that controls serine/threonine kinase and serine/threonine phosphatase activity (2). Dopamine stimulates phosphorylation of DARPP-32 through D1 receptors and activation of PKA. PKA phosphorylation of DARPP-32 at Thr34 converts it into an inhibitor of protein phosphatase 1 (1). DARPP-32 is converted into an inhibitor of PKA when phosphorylated at Thr75 by cyclin-dependent kinase 5 (CDK5) (2). Mice containing a targeted deletion of the DARPP-32 gene exhibit an altered biochemical, electrophysiological, and behavioral phenotype (3).
Background References	 Nishi, A. et al. (1997) J. Neurosci. 17, 8147-8155. Bibb, J.A. et al. (1999) Nature 402, 669-671. Fienberg, A.A. et al. (1998) Science 281, 838-842.
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