

# Product Datasheet

## DARPP-32 [p Thr75] Antibody - Azide Free NB300-234

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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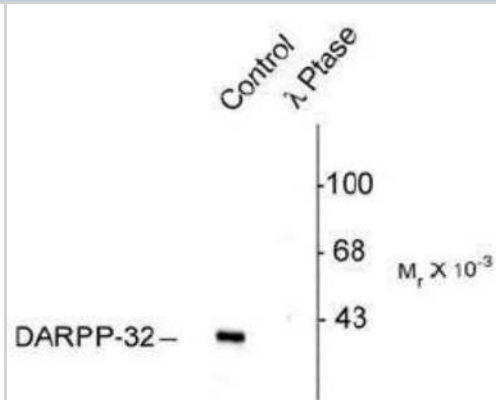


**NB300-234****DARPP-32 [p Thr75] Antibody - Azide Free**

| <b>Product Information</b>         |  |
|------------------------------------|--|
| <b>Unit Size</b>                   | 0.1 ml   |
| <b>Concentration</b>               | Please see the vial label for concentration. If unlisted please contact technical services.  |
| <b>Storage</b>                     | Store at -20C. Avoid freeze-thaw cycles.   |
| <b>Clonality</b>                   | Polyclonal   |
| <b>Preservative</b>                | No Preservative  |
| <b>Isotype</b>                     | IgG  |
| <b>Purity</b>                      | Antigen Affinity-purified  |
| <b>Buffer</b>                      | 10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol  |
| <b>Target Molecular Weight</b>     | 32 kDa   |
| <b>Product Description</b>         |  |
| <b>Description</b>                 | Novus Biologicals Rabbit DARPP-32 [p Thr75] Antibody - Azide Free (NB300-234) is a polyclonal antibody validated for use in WB. Anti-DARPP-32 Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| <b>Host</b>                        | Rabbit   |
| <b>Gene ID</b>                     | 84152  |
| <b>Gene Symbol</b>                 | PPP1R1B  |
| <b>Species</b>                     | Mouse, Rat   |
| <b>Marker</b>                      | Neuronal Marker  |
| <b>Specificity/Sensitivity</b>     | Specific for endogenous levels of the ~32 kDa DARPP-32 protein phosphorylated at Thr75. Immunolabeling is completely eliminated by treatment with lambda-phosphatase.  |
| <b>Immunogen</b>                   | Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr75 conjugated to KLH. Accession # Q6J4I0   |
| <b>Product Application Details</b> |  |
| <b>Applications</b>                | Western Blot   |
| <b>Recommended Dilutions</b>       | Western Blot 1:1000  |

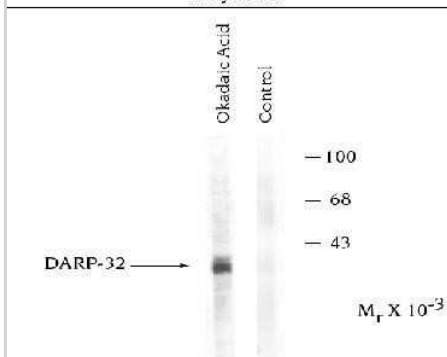
## Images

Western Blot: DARPP32 [p Thr75] Antibody [NB300-234] - Analysis of rat caudate lysate showing specific immunolabeling of the ~32k DARPP-32 phosphorylated at Thr75 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase). The blot is identical to the control except that it was incubated (1200 units for 30 min) before being exposed to the Anti-Thr75 DARPP-32. The immunolabeling is completely eliminated by treatment.



Western Blot: DARPP32 [p Thr75] Antibody [NB300-234] - Analysis of Rat caudate lysates prepared from caudate slices that had been incubated in the absence and presence of okadaic acid. The labeling by the antibody to DARPP-32 Thr75 is markedly increased by the okadaic acid treatment.

### Anti-Phospho DARP-32 (Thr75) Polyclonal



## Publications

Cunha AS, Matheus FC, Moretti M et al. Agmatine attenuates reserpine-induced oral dyskinesia in mice: Role of oxidative stress, nitric oxide and glutamate NMDA receptors. *Behav. Brain Res.* 2016-06-13 [PMID: 27306571] (WB, Mouse)

Hamel S, Bouchard A, Ferrario C et al. Both t-Darpp and DARPP-32 can cause resistance to trastuzumab in breast cancer cells and are frequently expressed in primary breast cancers *Breast Cancer Res Treat* 2010-02-01 [PMID: 19301121] (WB, Human)

Han et al. Spatial targeting of type II protein kinase A to filopodia mediates the regu. *J. Cell Biol.* 176:101.1. 2007-01-01 [PMID: 14631045]

Lindskog, M, Svenningsson, P, Pozzi, L, Kim, Y, Fienberg, AA, Bibb, JA, Fredholm, BB, Nairn, AC, Greengard, P, Fisone, G. Involvement of DARPP-32 phosphorylation in the stimulant action of caffeine, . *Nature (London)*, 418 774 - 778. 2002-01-01 [PMID: 12181566]

Maldve, RE, Zhang, TA, Ferrani-Kile, K, Schreiber, SS, Lippmann, MJ, Snyder, GL, Feinberg, AA, Leslie, SW, Gonzales, RA, Morrisett, RA. DARPP-32 the regulation of the ethanol sensitivity of NMDA receptors in the nucleus accumbens, *Nature Neurosci.* 5 641 - 648. 2002-01-01 [PMID: 12068305]

Greengard, P. The neurobiology of slow synaptic transmission, . *Science* 294 1024 -1030. 2001-01-01 [PMID: 11691979]

Bibb, JA, Snyder, GL, Nishi, A, Yan, Z, Meijer, L, Fienberg, AA, Tsai, LH, Kwon, YT, Girault, JA, Czernik, AJ, Huganir, RL, Hemmings, Jr, HC, Nairn, AC, Greengard, P. Phosphorylation of DARPP-32 by Cdk5 modulates dopamine signalling in neurons, . *Nature (London)* 402 669 - 671. 1999-01-01 [PMID: 10604473]

Fienberg, AA, Hiroi, N, Mermelstein, PG, Song, W, Snyder, GL, Nishi, A, Cheramy, A O'Callaghan, JP, Miller, DB, Cole, DG, Corbett, R, Haile, CN, Cooper, D,C, Onn, SP, Grace, AA, Ouimet, CC, White, FG, Hyman, SE, Surmeier, DG, Girault, J, Nestler, EJ, Greengard, P. DARPP-32: regulator of the efficacy of dopaminergic neurotransmission, . *Science* 281 838 - 842. 1998-01-01 [PMID: 9694658]

Walaas, SI Greengard, P+D1398. DARPP-32, A dopamine- adenosine 3':5'-monophosphate-regulated phosphoprotein enriched in dopamine-innervated brain regions, *J. Neurosci* 4 84 -98. 1984-01-01 [PMID: 6319625]





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### **Products Related to NB300-234**

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|             |   |
|-------------|---|
| NBL1-14679  | DARPP-32 Overexpression Lysate                      |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP]                 |
| HAF008      | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160      | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891  | Rabbit IgG Isotype Control                          |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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