

## ARG52254 anti-DARPP32 antibody

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes DARPP32
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Bov, Chk, Dog, NHuPrm, Xenopus laevis
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DARPP32
Species	Rat
Immunogen	Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	Dopamine- and cAMP-regulated neuronal phosphoprotein; DARPP32; DARPP-32; Protein phosphatase 1 regulatory subunit 1B

### Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-P	Assay-dependent
	WB	1:1,000
Application Note	Specific for the ~32k DARPP-32 protein * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

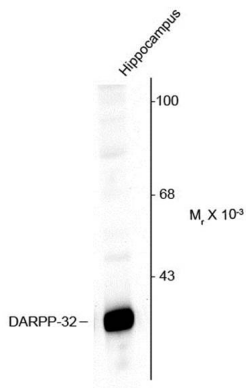
Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Database links	<a href="#">GeneID: 360616 Rat</a> <a href="#">Swiss-port # Q6J4I0 Rat</a>
Gene Symbol	PPP1R1B
Gene Full Name	protein phosphatase 1, regulatory (inhibitor) subunit 1B
Background	DARPP-32 is a dopamine (DA) and cAMP-regulated ~32k phosphoprotein that is associated with dopaminergic neurons (Fienberg et al., 1998). The protein inhibits protein phosphatase I when it is phosphorylated on Thr34. In contrast, when DARPP-32 is phosphorylated on Thr75 the protein acts as an inhibitor of PKA (Bibb et al., 1999). Phosphorylation of DARPP-32 is thought to play a critical role in the regulation of dopaminergic neurotransmission. In addition, the activity of DARPP-32 is also thought to play important roles in the actions of alcohol, caffeine and Prozac® (Maldve et al., 2002; Lindskog et al., 2002; Svenningsson et al., 2002)
Research Area	Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	23 kDa
PTM	Dopamine- and cyclic AMP-regulated neuronal phosphoprotein. Phosphorylation of Thr-34 is required for activity.

## Images



ARG52254 anti-DARPP32 antibody WB image

Western blot: Rat hippocampal lysate showing specific immunolabeling of the ~32k DARPP protein stained with ARG52254 anti-DARPP32 antibody.