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Datasheet for ABIN361423

anti-DARPP32 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	DARPP32 (PPP1R1B)
Binding Specificity:	N-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DARPP32 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH
Specificity:	Specific for the ~32k DARPP-32 protein.
Cross-Reactivity:	Rat (Rattus)
Predicted Reactivity:	bovine, canine, chicken, human, mouse, non-human primate, Xenopus
Purification:	Antigen Affinity Purified from Pooled Serum

Target Details

Target:	DARPP32 (PPP1R1B)
Alternative Name:	PPP1R1B (PPP1R1B Products)

Target Details

Background:	DARPP-32 is a dopamine (DA) and cAMP-regulated ~32k phosphoprotein that is associated with dopaminoceptive 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). Anti-DARPP-32 Western blot of a rat hippocampal lysate showing specific immunolabeling of the ~32k DARPP protein.
Molecular Weight:	'32 kDa
Gene ID:	360616
UniProt:	Q6J4I0

Application Details

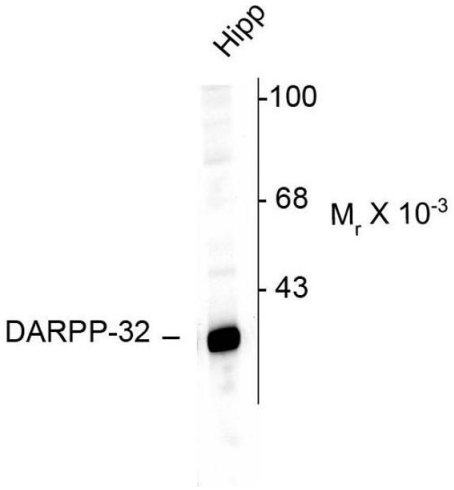
Application Notes:	Recommended Dilution: WB: 1:1000 IHC: 1:250 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 µL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50 % glycerol.
Storage:	-20 °C

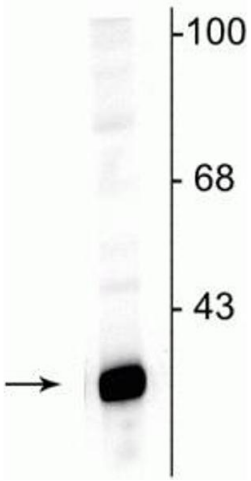
Publications

Product cited in:	Sun, Wei, Xiong, Wang, Xie, Wang, Yang, Wang, Lu, Liu, Wang: "Synaptic released zinc promotes tau hyperphosphorylation by inhibition of protein phosphatase 2A (PP2A)." in: **The Journal of biological chemistry**, Vol. 287, Issue 14, pp. 11174-82, (2012) (PubMed). Chen, Xiong, Kong, Qu, Wang, Chen, Wang, Zhu: "Neuroglobin attenuates Alzheimer-like tau hyperphosphorylation by activating Akt signaling." in: **Journal of neurochemistry**, Vol. 120, Issue 1, pp. 157-64, (2011) (PubMed).



Western Blotting

Image 1. Western blots of a rat hippocampal lysate showing specific immunolabeling of the ~32k DARPP protein.



Western Blotting

Image 2. Western blot of rat hippocampal lysate showing specific immunolabeling of the ~32 kDa DARPP protein.

