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From Research to Innovation

Product Datasheet

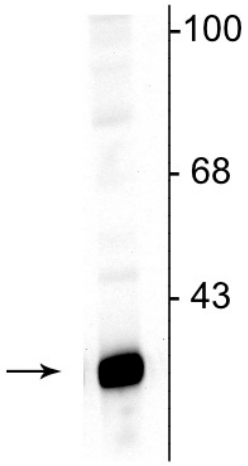
Anti-DARPP-32

Pooled Serum

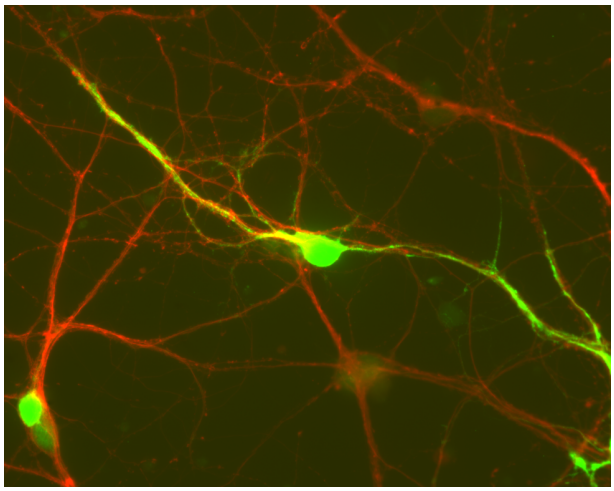
Overview

Catalog #	MADARPP32
Host Species	Rabbit Polyclonal
Format	Antigen Affinity Purified from Pooled Serum
Applications	WB 1:1000 IHC 1:250
Species Tested	Mouse, Rat
Expected Reactivity	Bovine, Canine, Chicken, Human, Non-Human Primate, *Xenopus*, Zebrafish
Immunogen	Synthetic peptide corresponding to amino acid residues from the N-terminal region of rat DARPP-32, conjugated to keyhole limpet hemocyanin (KLH).
Molecular Weight	32 kDa
Cite this Antibody	PhosphoSolutions Cat# 374-DARPP, RRID:AB_2492067

Images



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



Immunochemical staining of cultured CD1 mouse striatal cells showing specific labeling of DARPP-32(Cat. # 374-DARPP, green, 1:250) and Tuj1(red). Cells and photo courtesy of QBM Cell Science.

Details

Target Description	DARPP-32 is a dopamine (DA) and cAMP-regulated ~32 kDa phosphoprotein that is associated with dopaminoceptive neurons (Fienberg et al., 1998). The protein inhibits protein phosphatase I when it is phosphorylated on Thr-34. In contrast, when DARPP-32 is phosphorylated on Thr-75 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).
Specificity	Specific for endogenous levels of the ~32 kDa DARPP-32 protein.
Production/Purification	Prepared from pooled rabbit serum via chromatography on an affinity column prepared with the N-terminal peptide used as antigen.
Quality Control	Western blots performed on each lot.
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol.
Stability	After date of receipt, stable for at least 1 year at -20°C.

Significant Citations

Bonito-Oliva, A., DuPont, C., Madjid, N., Ögren, S. O., & Fisone, G. (2015). Involvement of the striatal medium spiny neurons of the direct pathway in the motor stimulant effects of phencyclidine. *The international journal of neuropsychopharmacology (CINP)*.

Michelle Niculescu, Shane A. Perrine, Jonathan S. Miller, Michelle E. Ehrlich, and Ellen M. Unterwald (2008) Trk: A Neuromodulator of Age-Specific Behavioral and Neurochemical Responses to Cocaine in Mice**.** *J. Neurosci*., Jan 2008; 28: 1198 - 1207.

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