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PRODUCT DATA SHEET

Product Name: ANTI-DARPP-32 ANTIBODY

Product Code: P40003-100

Pack Size:

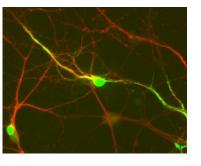
100 µL

Description: DARPP-32 is a dopamine (DA) and cAMPregulated ~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).

Physical State: Storage/Stability:	Liquid; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol Stable at -20 °C for at least 1 year. For long term storage -20 °C is recommended
Purification Method:	Prepared from rabbit serum by affinity purification via chromatography on an affinity column prepared with the N-terminal peptide used as antigen.
Shipping Conditions:	Domestic: Blue Ice International: Blue Ice or Dry Ice

Immunostaining

Cultured CD1 mouse striatal cells showing specific labeling of DARPP-32 in green and Tuj1 in red. Cells and photo courtesy of QBMCellScience.



Host Species:	Rabbit	(Polyclonal)
<i>M</i> r (kDa):	32	

Immunogen: Peptide corresponding to amino acid residues from the N-terminal region of rat DARPP-32, conjugated to keyhole limpet hemocyanin (KLH).

Species Reactivity: The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will also react with bovine, canine, chicken, human, mouse, non-human primate and Xenopus based on the fact that these species have 100% homology with the amino acid sequence used as antigen.

Recommended Antibody Dilutions:

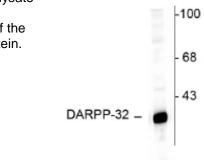
WB: 1:1000 IHC: 1:250

References:

- 1) Bibb JA et al. (1999) *Nature* (London) 402:669-671.
- 2) Fienberg, AA et al. (1998) Science 281:838-842.
- 3) Lindskog M et al. (2002) Nature (London)
- 418:774-778. 4) Maldve RE et al. (2002) *Nature Neurosci* 5:641-648.
- 5) Svenningsson P et al. (2002) Proc Natl Acad Sci USA 99:3182-3187.

Western Blot

Rat hippocampal lysate showing specific immunolabeling of the ~32k DARPP protein.



Application Key: WB – Western Blot IF – Immunofluorescence IHC – Immunohistochemistry IP - Immunoprecipitation

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