

Qty: 100µL-sufficient for 10 mini-blots

Rabbit anti-phospho-DARPP-32 (Thr34)

Catalog No. 38-7500

Lot No.: See product label

Exp. Date: See product label

Rabbit anti-phospho-DARPP-32 (Thr34)

FORM

This polyclonal antibody is supplied as a 100 µL aliquot in 10mM HEPES (pH7.5), 150 mM NaCl, 100µg/mL BSA, and 50% glycerol. This antibody is affinity purified from rabbit antiserum by sequential chromatography on phospho-and non-phosphopeptide affinity columns.

PAD: PS34

IMMUNOGEN

Synthetic peptide derived from amino acids surrounding the phosphorylated Thr34 residue of the human, mouse, and rat DARPP-32 proteins

SPECIFICITY

This antibody is specific for the DARPP-32 protein when phosphorylated at Thr34. On Western blots, it identifies the target band at ~32 kDa.

REACTIVITY

Reactivity has been confirmed with rat caudate slices incubated in the presence of forskolin. Based on amino acid sequence homology, reactivity with mouse and human is also expected.

WB: 1:1,000

DB: 1:1,000

STORAGE

Aliquot and store at -20°C .














BACKGROUND

DARPP-32, a dopamine (DA) and cAMP-regulated ~32 kDa phosphoprotein that is associated with dopaminergic neurons bearing D-1 receptors in the basal ganglia,¹ 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. Phosphorylation of DARPP-32 is thought to play a critical role in the regulation of dopaminergic neurotransmission². In addition, the activity of DARPP-32 is also thought to play important roles in the actions of alcohol, caffeine and Prozac®.

REFERENCES

1. Svenningsson P, et al. *Science* 302:1412-1415, 2003.
2. Nish A, et al. *J Neurochem* 81(4):832-841, 2002.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

For research use only. CAUTION: Not for human or animal therapeutic or diagnostic use.

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