



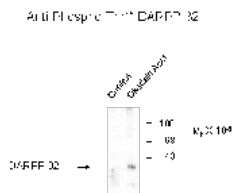
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## DARPP 32 (phospho Thr75) Antibody

CATALOG NUMBER: XPS-1005



Western blot of rat caudate lysate showing phosphospecific immunolabeling of the ~32k DARPP-32 protein phosphorylated at Thr75.

### Specifications

<b>SPECIES REACTIVITY:</b>	Human, Mouse
<b>TESTED APPLICATIONS:</b>	WB
<b>APPLICATIONS:</b>	Applications include Dot Blots (DB) and Western Blots (WB). Suitability for Immunohistochemistry (IHC) has not yet been determined. Rabbit anti-DARPP-32 (Thr75) recognizes human and mouse forms of the protein. When internally tested under ideal conditions the working dilutions were 1:1000 for DB and WB.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>PREDICTED MOLECULAR WEIGHT:</b>	32
<b>SPECIFICITY:</b>	DARPP 32 antibody is specific for the ~34k DARPP-32 phosphorylated at Thr75.
<b>IMMUNOGEN:</b>	DARPP-32 (Thr75) polyclonal antibody was raised against a synthetic phosphopeptide corresponding to amino acids residues surrounding the phospho Thr75 of DARPP-32. The sequence of the immunogen is identical in human and mouse.
<b>HOST SPECIES:</b>	Rabbit

### Properties

<b>PURIFICATION:</b>	Affinity Purified
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	100 uL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per mL BSA and 50% glycerol.
<b>STORAGE CONDITIONS:</b>	For long term storage -80°C is recommended, but shorter term storage at -20°C is also acceptable as aliquots may be taken without freeze/thawing due to the presence of 50% glycerol. Stock solutions are stable for a minimum of 1 year at -20°C.
<b>CLONALITY:</b>	Polyclonal
<b>CONJUGATE:</b>	Unconjugated

**Additional Info****ALTERNATE NAMES:** Darpp32, Darpp-32, DARPP-32,**ACCESSION NO.:** Q6J4I0**PROTEIN GI NO.:** 81884861**OFFICIAL SYMBOL:** Ppp1r1b**GENE ID:** 360616**Background**

**BACKGROUND:** DARPP-32, a dopamine (DA) and cAMP-regulated ~32k phosphoprotein, is associated with dopaminergic neurons bearing D-1 receptors in the basal ganglia. 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. Phosphorylation of DARPP 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®.

- REFERENCES:**
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**FOR RESEARCH USE ONLY**

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