

Phospho-Thr34 DARPP-32 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1005

Specification

Phospho-Thr34 DARPP-32 Antibody - Product Information

Application	WB
Primary Accession	Q6J4I0
Reactivity	Rat
Predicted	Bovine, Chicken, Human, Mouse, Monkey
Host	Rabbit
Clonality	polyclonal
Calculated MW	32 KDa

Phospho-Thr34 DARPP-32 Antibody - Additional Information

Gene ID	360616
Gene Name	PPP1R1B
Other Names	
Protein phosphatase 1 regulatory subunit 1B, DARPP-32, Dopamine- and cAMP-regulated neuronal phosphoprotein, Ppp1r1b	

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr34 conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Antibody Specificity

Specific for the ~32k DARPP-32 protein phosphorylated at Thr34. Immunolabeling is blocked by λ -phosphatase treatment.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-Thr34 DARPP-32 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

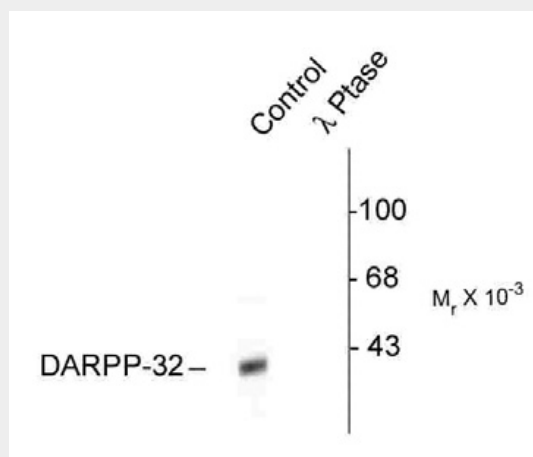
Blue Ice

Phospho-Thr34 DARPP-32 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Thr34 DARPP-32 Antibody - Images



Western blot of rat caudate lysate showing specific immunolabeling of the ~32k DARPP-32 phosphorylated at Thr34 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: λ-Ptase). The blot is identical to the control except that it was incubated in λ-Ptase (1200 units for 30 min) before being exposed to the Anti-Thr34 DARPP-32. The immunolabeling is completely eliminated by treatment with λ-Ptase.

Phospho-Thr34 DARPP-32 Antibody - Background

DARPP-32 is a dopamine (DA) and cAMP-regulated ~32k phosphoprotein that is associated with dopaminergic 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).

Phospho-Thr34 DARPP-32 Antibody - References

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