ARG52255
anti-DARPP32 phospho (Thr34) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DARPP32 phospho (Thr34)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Bov, Chk, Dog, NHuPrm
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DARPP32
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr34 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	Dopamine- and cAMP-regulated neuronal phosphoprotein; DARPP32; DARPP-32; Protein phosphatase 1 regulatory subunit 1B

Application Instructions

Application table

Application	Dilution
WB	1:1,000

Application Note: Specific for the ~32k DARPP-32 protein phosphorylated at Thr34. Immunolabeling is blocked by λ-phosphatase treatment.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

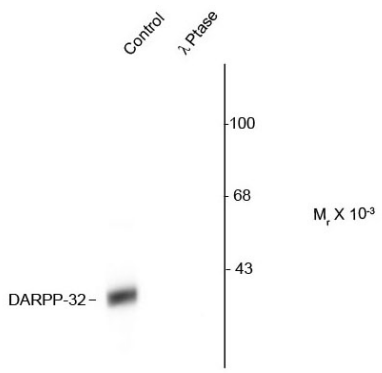
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 360616 Rat
	Swiss-port # Q6J4I0 Rat
Gene Symbol	PPP1R1B
Gene Full Name	protein phosphatase 1, regulatory (inhibitor) subunit 1B
Background	DARPP-32 is a dopamine (DA) and cAMP-regulated ~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).
Research Area	Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	23 kDa
PTM	Dopamine- and cyclic AMP-regulated neuronal phosphoprotein. Phosphorylation of Thr-34 is required for activity.

Images



ARG52255 anti-DARPP32 phospho (Thr34) antibody WB image

Western blot: Rat caudate showing phospho-specific immunolabeling of the ~32k DARPP-32 protein phosphorylated at Thr 34 stained with ARG52255 anti-DARPP32 phospho (Thr34) antibody.