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Product datasheet for TA392887M

DARPP32 (PPP1R1B) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000 IHC: 1:50~1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human DARPP-32 around the phosphorylation site of Threonine 75.
Specificity:	p-DARPP-32 (T75) polyclonal antibody detects endogenous levels of DARPP-32 protein only when phosphorylated at Thr75
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 32 kDa
Gene Name:	protein phosphatase 1 regulatory inhibitor subunit 1B
Database Link:	Entrez Gene 84152 Human Q9UD71

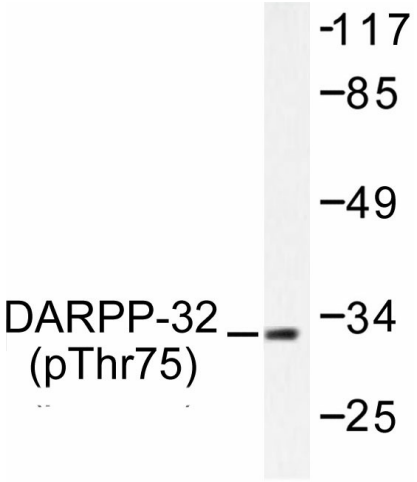
View online »

Background: Dopaminergic signaling pathways, which are essential for multiple brain functions, are abnormal in several neurological disorders, such as schizophrenia, Parkinson's disease and drug abuse. DARPP-32 (for dopamine and adenosine 3',5'-monophosphate-regulated phosphoprotein of 32 kDa) is abundant in neurons that receive dopaminergic input. Activation of PKA and the consequent phosphorylation of DARPP-32 on threonine occurs in response to dopamine acting upon D1-like receptors. Dopamine interaction with D2-like receptors results in the inhibition of PKA activation, the activation of protein phosphatase 2B and the consequent dephosphorylation of DARPP-32. Neurotransmitters other than dopamine may also be able to stimulate the phosphorylation or dephosphorylation of DARPP-32. Phosphorylated DARPP-32 is a potent inhibitor of PP-1.

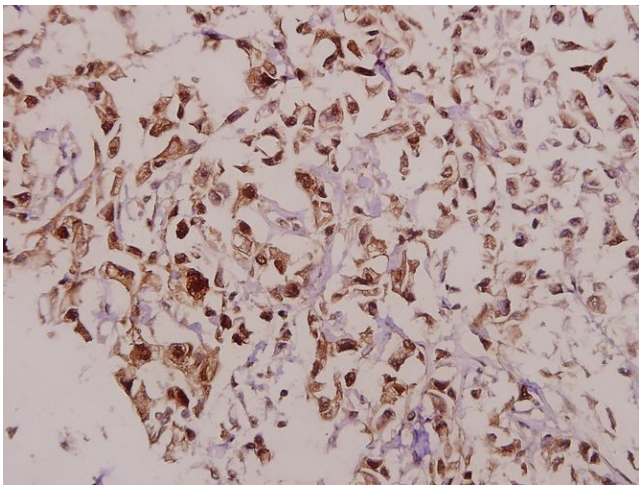
Synonyms: DARPP-32; DARPP32; Dopamine- and cAMP-regulated neuronal phosphoprotein; PPP1R1B; Protein phosphatase 1 regulatory subunit 1B

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of p-DARPP-32 (T75) pAb at 1:1000 dilution Lane1:AML-12 whole cell lysate(40ug) Lane2:C6 whole cell lysate(40ug) Lane3:HepG2 whole cell lysate(40ug) Lane4:SGC7901 whole cell lysate(40ug) Lane5:PC3 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of p-DARPP-32 (T75) pAb in paraffin-embedded human colorectal carcinoma tissue at 1:50.