DARPP-32 (phospho-T75) polyclonal antibody

Catalog:	BCP00641	Host:	Rabbit	Reactivity:	Human,Mouse,Rat

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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 32 kDa

Swiss-Prot:

Q9UD71

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
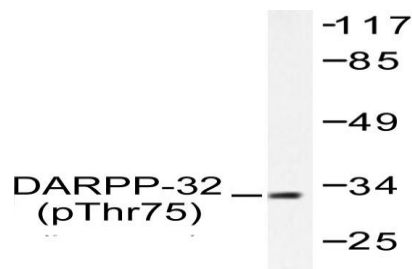
Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

p-DARPP-32 (T75) polyclonal antibody detects endogenous levels of DARPP-32 protein only when phosphorylated at Thr75

DATA:

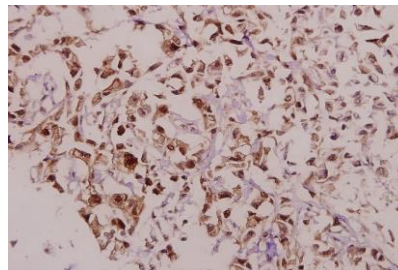Western blot (WB) analysis of p-DARPP-32 (T75) pAb at 1:1000 dilution

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.

Note:

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