

**DARPP-32 (P69) polyclonal antibody**

Catalog: BCP00640

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

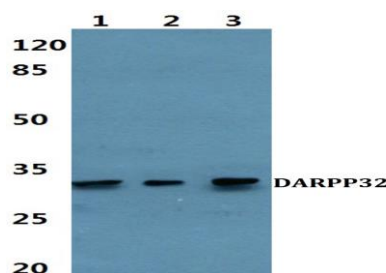
**Storage&Stability:**

Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

**Specificity:**

DARPP-32 (P69) polyclonal antibody detects endogenous levels of DARPP-32 protein.

**DATA:**

Western blot (WB) analysis of DARPP-32 (P69) pAb at 1:500 dilution

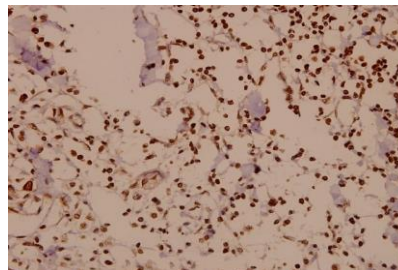
Lane1:PC3 whole cell lysate(40ug)

Lane2:HCT116 whole cell lysate(40ug)

Lane3:MCF-7 whole cell lysate(40ug)

Lane4:CT26 whole cell lysate(40ug)

Lane5:PC12 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of DARPP-32 (P69) pAb in paraffin-embedded human breast carcinoma tissue at 1:50.

**Note:**

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