

## DARPP32 polyclonal antibody

Catalog: BS90392

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) 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(Human) Q60829(Mouse) Q6J4I0(Rat)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:1,000-1:5,000

ICC:1:50-1:200

IHC:1:50-1:200

FC:1:50-1:100

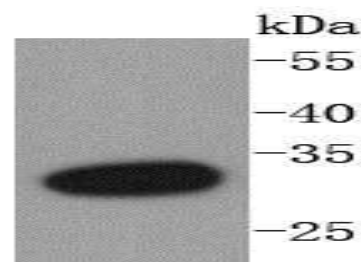
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

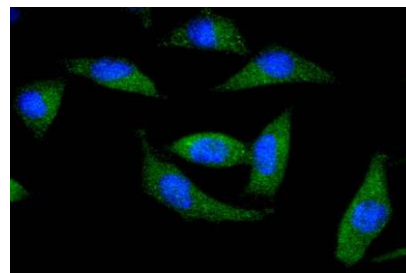
### Specificity:

DARPP32 polyclonal antibody detects endogenous levels of DARPP32 protein.

### DATA:



Western blot analysis of DARPP32 on mouse brain lysates using anti-DARPP32 antibody at 1/1,000 dilution.



ICC staining DARPP32 in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

### Note:

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

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