

## DARPP 32

**Cat.No. 382 005; Polyclonal Guinea pig antibody, 50 µg specific antibody (lyophilized)**

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Guinea pig serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> not tested yet <b>ICC:</b> not tested yet <b>IHC:</b> 1 : 1000 up to 1 : 5000 <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Synthetic peptide corresponding to AA 148 to 166 from mouse Darpp32 (UniProt Id: Q60829)
Reactivity	Reacts with: rat (Q60829), mouse (Q6J4I0). Other species not tested yet.
Specificity	Specific for DARPP 32.
matching control	382-OP

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

The **d**opamine and **c**AMP regulated **p**hosphoprotein **32** kDa (**DARPP 32**), also known as **PPP1R1B**, is phosphorylated in a dopamine dependent manner. Stimulation of the dopamine receptor DRD 1 increases cAMP levels resulting in DARPP 32 phosphorylation. It is a commonly used marker for striatal medium spiny neurons (MSNs).

### Selected General References

Protective Effect of Curcumin by Modulating BDNF/DARPP32/CREB in Arsenic-Induced Alterations in Dopaminergic Signaling in Rat Corpus Striatum.

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Neurobiology of disease (2015) 77: 191-203.

Striatal progenitors derived from human ES cells mature into DARPP32 neurons in vitro and in quinolinic acid-lesioned rats. Aubry L, Bugi A, Lefort N, Rousseau F, Peschanski M, Perrier AL

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