DARPP-32 (Phospho-Thr75) Antibody

#11185

Catalog Number: 11185-1, 11185-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. :Q9UD71

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from Human DARPP-32 around the phosphorylation site of threonine 75 (A-Y-Tp-P-P).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

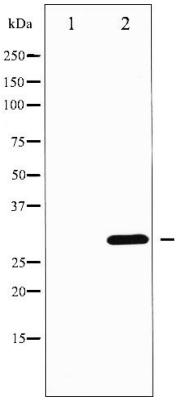
Specificity/Sensitivity:DARPP-32 (Phospho-Thr75) Antibody detects endogenous levels of DARPP-32 only when phosphorylated at threonine 75.

Reactivity: Human,Mouse,Rat

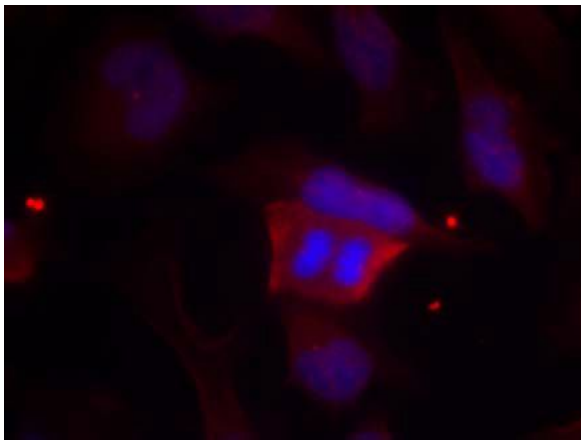
Applications:

Predicted MW: 32 kd

WB:1:500~1:1000 IHC:1:50~1:200 IF: 1:100~1:200



Western blot analysis of DARPP-32 phosphorylation expression in Forskolin treated COS7 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence staining of methanol-fixed HeLa cells

using DARPP-32 (Phospho-Thr75) Antibody (#11185, Red).

Background :

DARPP-32 a member of the protein phosphatase inhibitor 1 family. A dopamine- and cyclic AMP-regulated neuronal phosphoprotein. Both dopaminergic and glutamatergic (NMDA) receptor stimulation regulate the extent of DARPP32 phosphorylation, but in opposite directions.

References:

Gammie SC. et al.(2008) PLoS ONE. 2008 Apr 9;3(4):e1974.
Alves S. et al. (2008) Hum Mol Genet. 2008 Jul 15;17(14):2071-83.
Bibb, J.A. et al. (1999) Nature 402, 669-671
Nishi, A. et al. (1997) J. Neurosci. 17, 8147-8155