



Rabbit Anti-Phospho-DARPP32 (Thr75) antibody

SL3119R

Product Name:	Phospho-DARPP32 (Thr75)
Chinese Name:	磷酸化多巴胺/cAMP调节磷蛋白抗体
Alias:	DARPP32 (phospho T75); p-DARPP32 (phospho T75); PPP1R1B(phospho T75); DARPP 32; Dopamine and cAMP regulated neuronal phosphoprotein; Dopamine and cAMP regulated phosphoprotein DARPP 32; Dopamine and cAMP regulated phosphoprotein DARPP32; FLJ20940; IPPD; Neuronal phosphoprotein DARPP 32; PPP1R1B; Protein phosphatase 1 regulatory (inhibitor) subunit 1B; Protein phosphatase 1 regulatory subunit 1B; PPR1B HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Guinea Pig,,G
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	32kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human DARPP32 around the phosphorylation site of Thr75:AY(p-T)PP
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

This gene encodes a bifunctional signal transduction molecule. Dopaminergic and glutamatergic receptor stimulation regulates its phosphorylation and function as a kinase or phosphatase inhibitor. As a target for dopamine, this gene may serve as a therapeutic target for neurologic and psychiatric disorders. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011].

Function:

Inhibitor of protein-phosphatase 1.

Subcellular Location:

Cytoplasm.

Post-translational modifications:

Phosphorylation of Thr-34 is required for activity.

Similarity:

Belongs to the protein phosphatase inhibitor 1 family.

SWISS:

Q9UD71

Gene ID:

84152

Database links:

[Entrez Gene: 84152](#) Human

[Entrez Gene: 19049](#) Mouse

[Entrez Gene: 360616](#) Rat

[Omim: 604399](#) Human

[SwissProt: Q9UD71](#) Human

[SwissProt: Q60829](#) Mouse

[SwissProt: Q6J4I0](#) Rat

[Unigene: 286192](#) Human

[Unigene: 45372](#) Mouse

[Unigene: 70366](#) Rat

Product Detail:

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

DARPP-32

通过自身不同位点的磷酸化对蛋白质磷酸化和去磷酸化过程发挥着双向调控的作用。

在脑内存在于接受多巴胺能投射的神经元中,其磷酸化过程受多种神经递质的调控,在Signal transduction途径中处于中心位置,整合多种胞内Signal

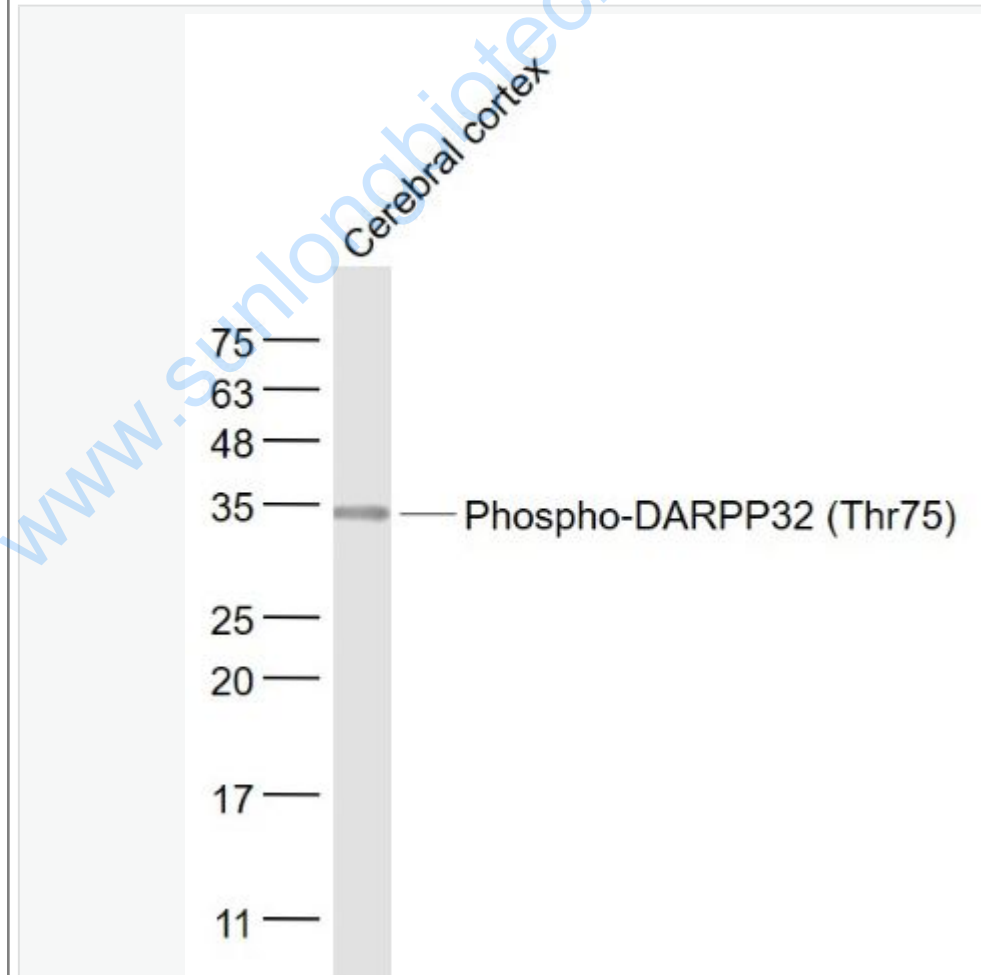
transduction,调节神经元的电学和化学性质以及动物的生理行为反应,参与多种生理功能和病理过程,包括药物成瘾、抑郁症、精神分裂症等。

此外,DARPP-32在非神经系统的功能也逐渐被人们所认识。

多巴胺和cAMP调节的磷蛋白(dopamine and adenosine 3'5'-monophosphate-regulated phospho-protein,Mr 32 kD,DARPP-

32)是一个具有双重功能的独特蛋白,它既是磷酸酶(如PP-1)的抑制剂,也是蛋白激酶(如PKA)的抑制剂。

Picture:



Sample:

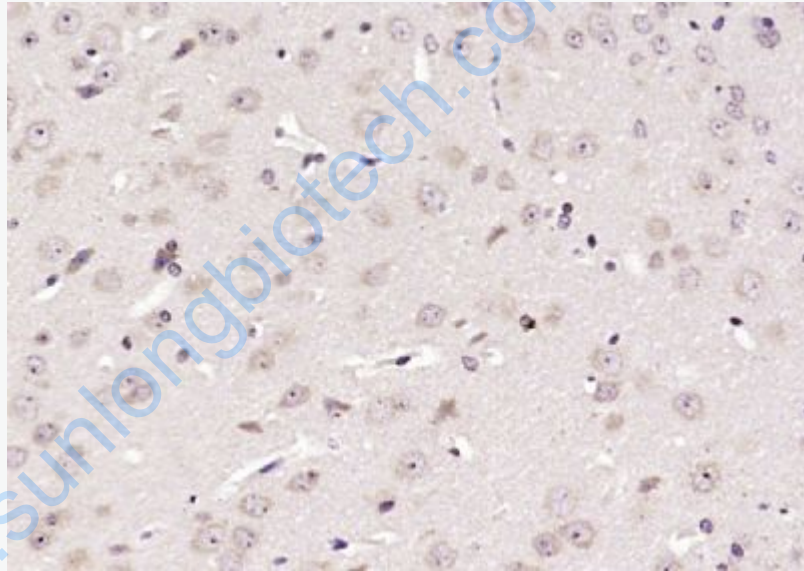
Cerebral cortex (Mouse) Lysate at 40 ug

Primary: Anti- Phospho-DARPP32 (Thr75) (SL3119R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 32 kD

Observed band size: 32 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-DARPP32 (Thr75)) Polyclonal Antibody, Unconjugated (SL3119R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.