

Rabbit Anti-Phosphor-PPP3CA (Ser469)antibody

SL10343R

Product Name Phosphor-PPP3CA (Ser469)

Chinese Name 磷酸化钙调磷酸酶 A/钙依赖磷酸酶 A 抗体

Alias PPP3CA(Phosphor S469); PPP3CA(Phosphor Ser469); Calcineurin A alpha; CalcineurinA; Calcineurin-A; Calcineurin A; Calmodulin dependent calcineurin A subunit alpha isoform; CALN; CALNA 1; CALNA; CALNA1; CAM PRP catalytic subunit; CCN 1; CCN1; CNA 1; CNA; CNA1; PPP2B; Protein phosphatase 3 (formerly 2B) catalytic subunit alpha isoform; Serine/threonine protein phosphatase 2B catalytic subunit alpha isoform; PP2BA_HUMAN; CAM-PRP catalytic subunit; Calmodulin-dependent calcineurin A subunit alpha isoform; protein phosphatase 2B, catalytic subunit, alpha isoform; serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform.

Product Type Phosphorylated anti

Research Area Cell biology immunology Neurobiology Signal transduction Kinases and Phosphatases

Immunogen Species Rabbit

Clonality Polyclonal

React Species Mouse(predicted:Human,Rat,Chicken,Cow,Rabbit,GuineaPig)

Applications IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 57kDa

Cellular localization The nucleus

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated Synthesised phosphopeptide derived from human PPP3CA around the phosphorylation site of Ser469: 421-521/521



Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Mouse(predicted:Human,Rat,Chicken,Cow,Rabbit,GuineaPig)1M TBS(pH7.4) with 1% BSA, Mouse(predicted:Human,Rat,Chicken,Cow,Rabbit,GuineaPig)3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed Calcineurin, a major soluble calmodulin binding protein in the brain, a Ca ²⁺ /calmodulin dependent serine/threonine protein phosphatase, with a relatively narrow substrate specificity. This metalloenzyme, also known as phosphatase 2B, is a heterodimer composed of a calmodulin binding, catalytic alpha subunit 61 kDa, calcineurin A) and calcium binding beta subunit (18 kDa, calcineurin B). The Ca ²⁺ binding subunit, calcineurin B, is immunologically conserved from yeast to mammals. The presence of 2 different calcineurin B isoforms (beta 1 and beta 2) has been reported in rat testis. The catalytic subunit of calcineurin, calcineurin A, isolated from different tissues or different organisms, exhibits some immunological heterogeneity. Further, there are at least 2 isoforms of calcineurin A in bovine brain (alpha 1 and alpha 2, 61 and 59 kDa, respectively).
Product Detail	Function: Calcium-dependent, calmodulin-stimulated protein phosphatase. This subunit may have a role in the calmodulin activation of calcineurin. Dephosphorylates DNM1L, HSPB1 and SSH1. Subcellular Location: Nucleus. Note=Colocalizes with ACTN1 and MYOZ2 at the Z line in heart and skeletal muscle. Tissue Specificity: Interacts with CHP1 and CHP2. Composed of two components (A and B), the A component is the catalytic subunit and the B component confers calcium sensitivity. Interacts with CRTC2, MYOZ1, MYOZ2 and MYOZ3. Interacts with DNM1L; the interaction dephosphorylates DNM1L and regulates its translocation to mitochondria. Interacts with CMYA5; this interaction represses calcineurin activity in muscle. Similarity: Belongs to the PPP phosphatase family. PP-2B subfamily. SWISS: Q08209

Gene ID:
5530

Database links:

[Entrez Gene: 5530](#) Human

[Entrez Gene: 19055](#) Mouse

[Entrez Gene: 24674](#) Rat

[Omim: 114105](#) Human

[SwissProt: Q08209](#) Human

[SwissProt: P63328](#) Mouse

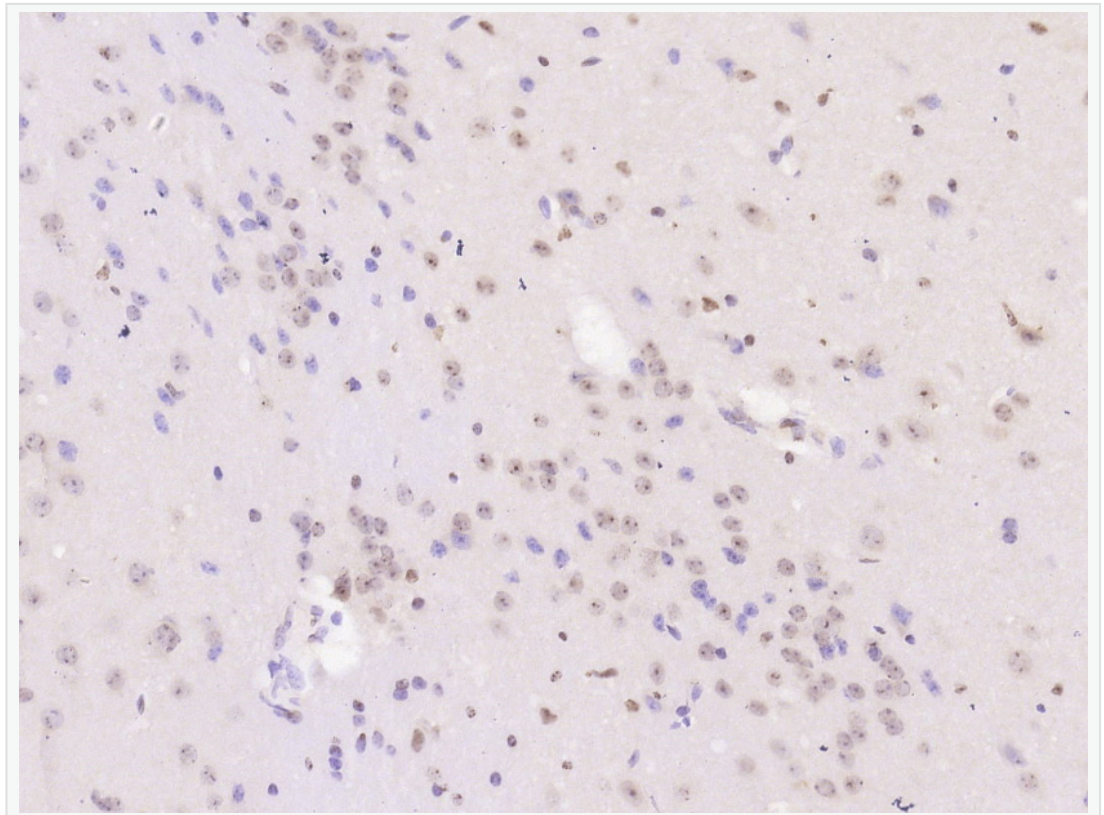
[SwissProt: P63329](#) Rat

[Unigene: 435512](#) Human

[Unigene: 331389](#) Mouse

[Unigene: 6866](#) Rat

**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); 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 (PPP3CA (Ser469)) Polyclonal Antibody, Unconjugated (SL10343R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.