



Rabbit Anti-Phospho-Paxillin (Ser83) antibody

SL6452R

Product Name:	Phospho-Paxillin (Ser83)
Chinese Name:	磷酸化桩蛋白Paxillin抗体
Alias:	PXN(phospho S83); Paxillin (Phospho Ser83); Paxillin (Phospho S83); Paired box protein Pax 1; PAX 1; PAX1; Paxillin alpha; PXN; PXN protein; FLJ16691; FLJ23042; FLJ16691; PAXI HUMAN; Paxillin; PXN protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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:	68kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from rat Paxillin around the phosphorylation site of Ser83:PP(p-S)PS
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
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
Product Detail:	Pxn(phospho S83); Paxillin is a 64 kDa cytoskeletal adapter protein involved in organisation and function of focal adhesions, which are critical to cell adhesion and migration. This in turn plays a role in a wide variety of processes including embryogenesis, organogenesis, wound repair, inflammation and cancer. Paxillin contains

LD motifs, LIM domains, SH3 and SH2 binding domains that serve as docking sites for cytoskeletal proteins, tyrosine kinases (e.g., FAK, Pyk 2, Src), serine/threonine kinases, GTPase activating proteins and other adaptor proteins (e.g., Actin, Vinculin, Crk).

Function:

Cytoskeletal protein involved in actin-membrane attachment at sites of cell adhesion to the extracellular matrix (focal adhesion).

Subunit:

Binds in vitro to vinculin as well as to the SH3 domain of SRC and, when tyrosine phosphorylated, to the SH2 domain of V-CRK. Isoform beta binds to PTK2/FAK1 but weakly to vinculin. Isoform gamma binds to vinculin but only weakly to PTK2/FAK1. Interacts with GIT1, NUDT16L1/SDOS, PARVA and TGFB1I1. Component of cytoplasmic complexes, which also contain GIT1, ARHGEF6 and PAK1. Interacts with PTK2/FAK1 and PTK2B/PYK2. Binds ASAP2. Interacts with unphosphorylated ITGA4. Interacts with RNF5 and PDCD10. Interacts with NEK3 and this interaction is prolactin-dependent. Interacts with PTK6.

Subcellular Location:

Cytoplasm, cytoskeleton. Cell junction, focal adhesion. Cytoplasm, cell cortex.

Post-translational modifications:

Phosphorylated by MAPK1/ERK2. Phosphorylated on tyrosine residues during integrin-mediated cell adhesion, embryonic development, fibroblast transformation and following stimulation of cells by mitogens. Phosphorylation at Ser-244 by CDK5 reduces its interaction with PTK2/FAK1 in matrix-cell focal adhesions (MCFA) during oligodendrocytes (OLs) differentiation. Phosphorylation at Tyr-31 and Tyr-118 by PTK6 promote the activation of RAC1 via CRK/CrKII, thereby promoting migration and invasion.

Similarity:

Belongs to the paxillin family.
Contains 4 LIM zinc-binding domains.

SWISS:

P49023

Gene ID:

19303

Database links:

[Entrez Gene: 5829](#)Human

[Entrez Gene: 19303](#)Mouse

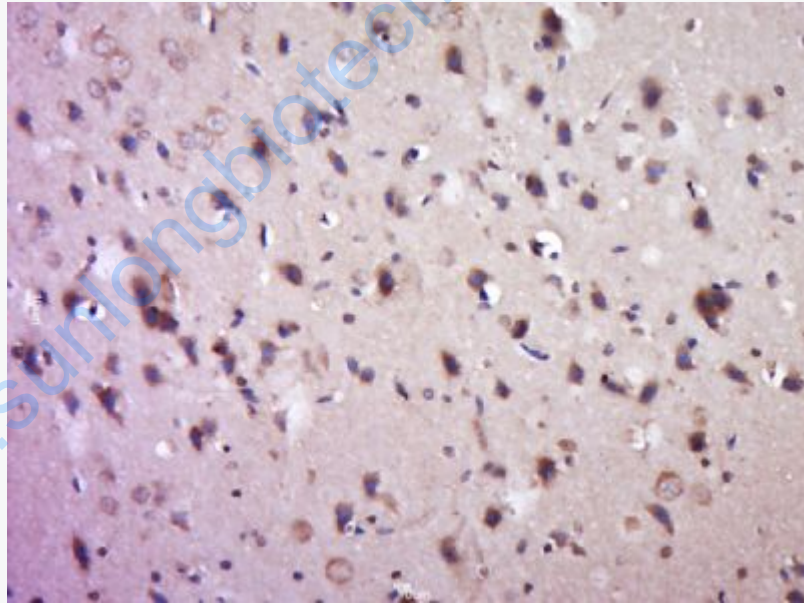
[Entrez Gene: 360820](#)Rat

[Omid: 602505](#)Human
[SwissProt: P49023](#)Human
[SwissProt: Q8VI36](#)Mouse
[SwissProt: Q66H76](#)Rat
[Unigene: 446336](#)Human
[Unigene: 18714](#)Mouse
[Unigene: 75](#)Rat

Important Note:

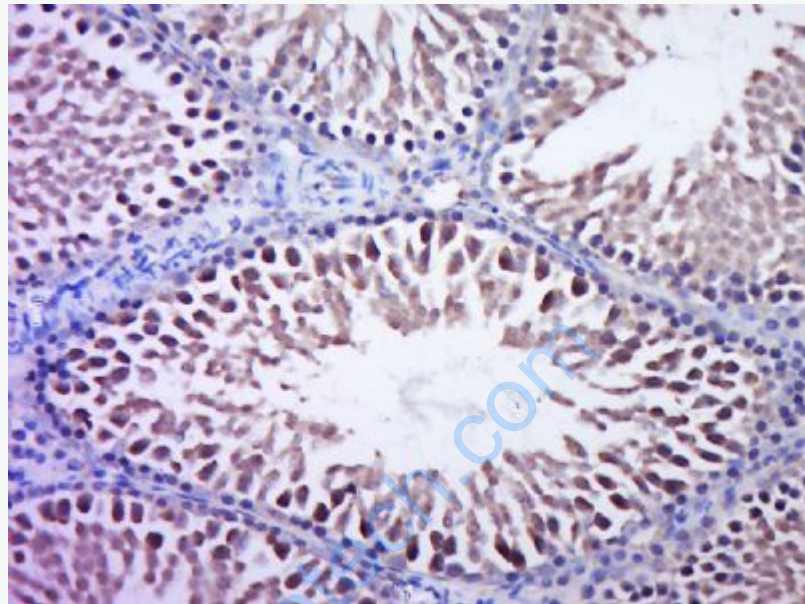
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Picture:



Paraformaldehyde-fixed, paraffin embedded (Rat 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-Paxillin(Ser83)) Polyclonal Antibody, Unconjugated (SL6452R) at 1:400 overnight at 4°C, followed by a conjugated

secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat testis); 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-Paxillin(Ser83)) Polyclonal Antibody, Unconjugated (SL6452R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.