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Rabbit Anti-Paxillin antibody

SL3539R

Product Name:	Paxillin
Chinese Name:	桩蛋白Paxillin抗体
Alias:	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:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3ug/TestIF=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 synthetic peptide derived from human Paxillin:501-591/591
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
Product Detail:	This gene encodes a cytoskeletal protein involved in actin-membrane attachment at sites of cell adhesion to the extracellular matrix (focal adhesion). Alternatively spliced transcript variants encoding different isoforms have been described for this gene. These isoforms exhibit different expression pattern, and have different biochemical, as well as physiological properties (PMID:9054445). [provided by RefSeq, Aug 2011]

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. Note=Colocalizes with integrins at the cell periphery.

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:
5829

Database links:

Entrez Gene: 5829Human

Entrez Gene: 19303Mouse

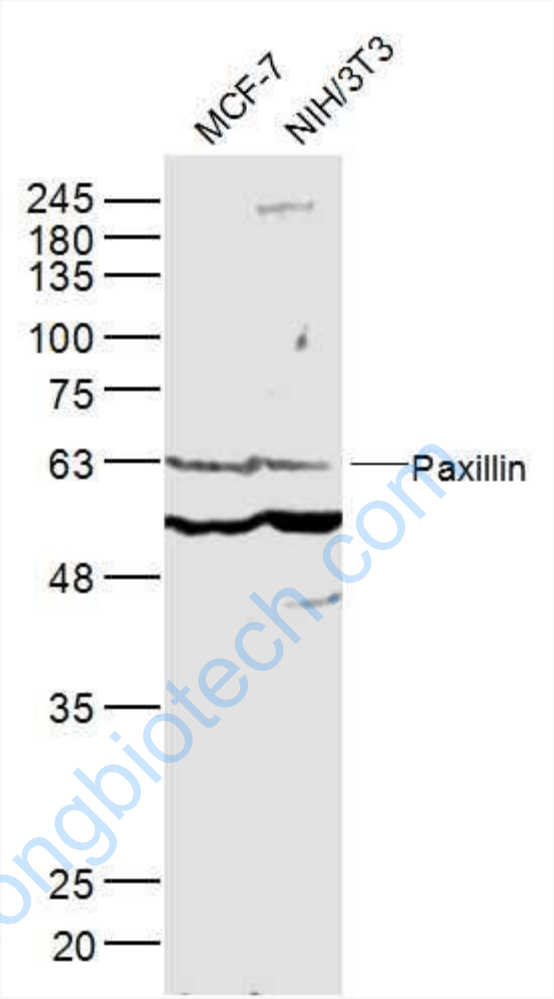
Entrez Gene: 360820Rat

Omim: 602505Human

SwissProt: P49023Human

	SwissProt: Q8VI36Mouse SwissProt: Q66H76Rat Unigene: 446336Human Unigene: 18714Mouse Unigene: 75Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Paxillin是一种分子量为68KDa的局部粘附蛋白，参与Tumour细胞的粘附与转移。主要用于各种恶性Tumour的研究。Paxillin蛋白是胞外基质细胞粘附（粘着斑）位点上肌动蛋白-膜附着的Cytoskeleton蛋白。Paxillin在整合蛋白的信号传导中起着非常重要的作用，整合蛋白介导的Cytoskeleton的再组织需要，paxillin 酪氨酸残基的磷酸化。Paxillin 被粘着斑激酶(FAK)在其118位的酪氨酸残基处磷酸化。已经证明，paxillin 118位和31位两个酪氨酸的磷酸化对于MM1癌细胞的迁移是重要的。Paxillin在胚胎发育、炎症和多种Tumour中发挥作用。

Picture:



Sample:

MCF-7(Human) Lysate at 40 ug

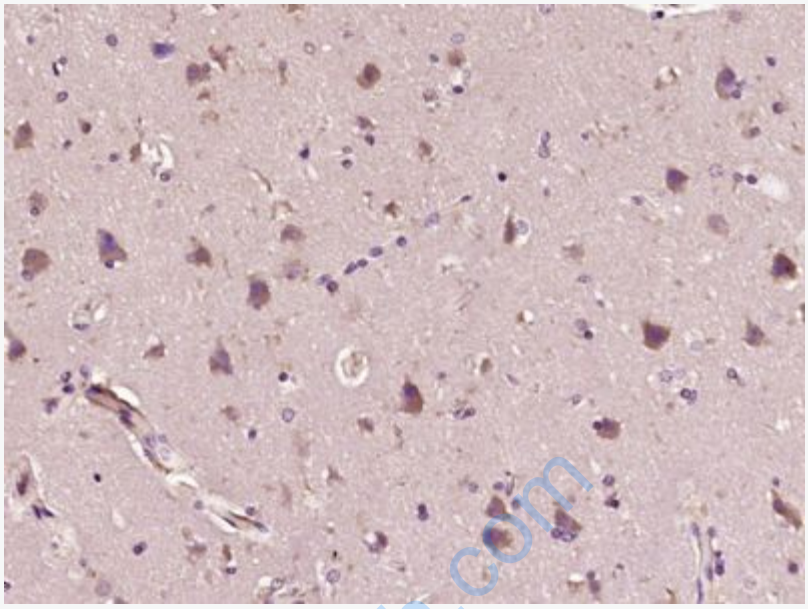
NIH/3T3(Mouse)Lysate at 40 ug

Primary: Anti-Paxillin (SL3539R) at 1/300 dilution

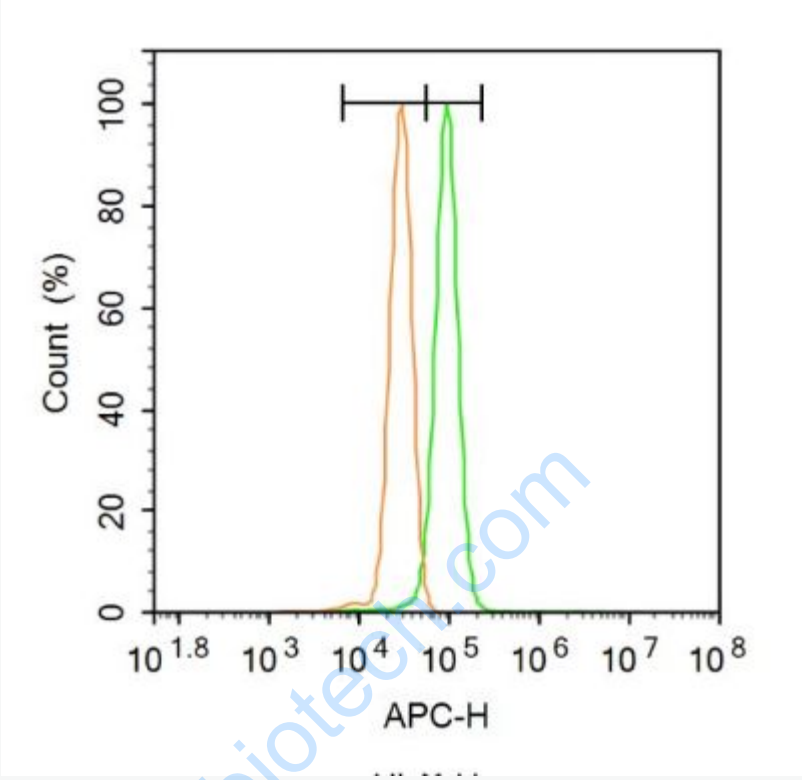
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 68 kD

Observed band size: 63 kD



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); 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 (Paxillin) Polyclonal Antibody, Unconjugated (SL3539R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control: A431.

Primary Antibody (green line): Rabbit Anti-Paxillin antibody (SL3539R)

Dilution: 1µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: 1µg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 20% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at -20℃ .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000

	events was performed.