

paxillin (T-16): sc-31010



The Power to Question

BACKGROUND

Paxillin is a focal adhesion phosphoprotein that is localized to the cytoskeleton. Phosphorylation of paxillin has been shown to occur in response to PDGF treatment, v-Src transformation or cross-linking of integrins. FAK (focal adhesion kinase) and PYK2 have been shown to phosphorylate paxillin. FAK phosphorylates paxillin specifically on Tyr-118 *in vitro*. However, FAK phosphorylation does not seem to be required for the recruitment of paxillin to cell adhesion sites. Paxillin may play a role in signal transduction, regulation of cell morphology and the recruitment of structural and signaling molecules to focal adhesions. It has been shown that the amount of paxillin is reduced in mitotic cells by proteolytic downregulation and that paxillin is alternatively phosphorylated on serine rather than on tyrosine and serine during mitosis.

REFERENCES

- Graham, I.L., et al. 1994. Complement receptor 3 (CR3, Mac-1, integrin α M β 2, CD11b/CD18) is required for tyrosine phosphorylation of paxillin in adherent and nonadherent neutrophils. *J. Cell Biol.* 127: 1139-1147.
- Salgia, R., et al. 1995. Molecular cloning of human paxillin, a focal adhesion protein phosphorylated by P210Bcr/Abl. *J. Biol. Chem.* 270: 5039-5047.

CHROMOSOMAL LOCATION

Genetic locus: PXN (human) mapping to 12q24.23, LPXN (human) mapping to 11q12.1; Pxn (mouse) mapping to 5 F, Lpxn (mouse) mapping to 19 A.

SOURCE

paxillin (T-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of paxillin of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-31010 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

paxillin (T-16) is recommended for detection of α , β , γ isoforms of paxillin, and to a lesser extent, leupaxin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

paxillin (T-16) is also recommended for detection of α , β , γ isoforms of paxillin, and to a lesser extent, leupaxin in additional species, including equine, canine, bovine and avian.

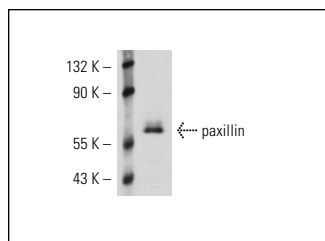
Molecular Weight of paxillin: 68 kDa.

Positive Controls: CCD-1064Sk cell lysate: sc-2263, HISM cell lysate: sc-2229 or ECV304 cell lysate: sc-2269.

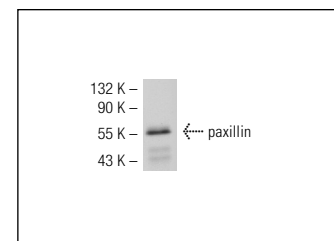
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



paxillin (T-16): sc-31010. Western blot analysis of paxillin expression in ECV304 whole cell lysate.



paxillin (T-16): sc-31010. Western blot analysis of paxillin expression in HISM whole cell lysate.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **paxillin (B-2): sc-365379** or **paxillin (C-1): sc-373880**, our highly recommended monoclonal alternatives to paxillin (T-16). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **paxillin (B-2): sc-365379**.