

paxillin (155-268): sc-4395

BACKGROUND

Paxillin is a 68 kDa 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

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CHROMOSOMAL LOCATION

Genetic locus: PXN (human) mapping to 12q24.31; Pxn (mouse) mapping to 5 F.

SOURCE

paxillin (155-268) is expressed in *E. coli* as a 40 kDa tagged fusion protein corresponding to amino acids 155-268 of paxillin of human origin.

PRODUCT

paxillin (155-268) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 50 μ g purified protein in PBS containing 5 mM DTT and 50% glycerol.

APPLICATIONS

paxillin (155-268) is suitable as a substrate for c-Abl: sc-4812 and as a Western blotting control for sc-5574.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

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