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RABBIT ANTI-PAXILLIN PHOSPHO-SPECIFIC [SER178] POLYCLONAL ANTIBODY

CATALOG NUMBER: **AB1962** **QUANTITY:** 100 µL

LOT NUMBER:

EPITOPE: phosphoserine 178

BACKGROUND: Paxillin, a focal adhesion protein, is involved in focal adhesion formation during cell adhesion and migration. Paxillin contains LD motifs, LIM domains, and SH3-/SH2-binding domains that participate in a variety of protein-protein interactions with kinases, GTPase-activating proteins, and cytoskeletal proteins. Phosphorylation of paxillin occurs at both tyrosine and serine sites. Serine phosphorylation of paxillin occurs in response to growth-factor activation and fibronectins. Both JNK1 and cdc2 kinases can phosphorylate serine 178 in paxillin. The mutant form of paxillin (S178A) decreases the migration of keratocytes and epithelial cells. Thus, phosphorylation paxillin at serine 178 may be important during cell migration.

SPECIFICITY: This antibody detects a 68 kDa protein corresponding to the molecular weight of phosphorylated paxillin on SDS-PAGE immunoblots of EGF treated A431 cells, but not in A431 control cells. Similar results were seen in calyculin A treated human A431 and aortic endothelial cells.

APPLICATIONS: Western Blot: 1:500
ELISA: 1:2000
Optimal working dilutions must be determined by the end user.

DATA:

Western blot analysis of A431 cells (20 µg/lane) serum starved overnight and treated with EGF (100 ng/ml) for 5 min. The blot was probed with anti-Paxillin (Ser-178).

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SPECIES REACTIVITY: Human. Reactivity with other species has not been confirmed.

IMMUNOGEN: Synthetic peptide (coupled to KLH) corresponding to amino acid residues around serine 178 of human paxillin. This human sequence is highly conserved in rat and mouse paxillin.

PRESENTATION: Affinity-purified antibody is supplied in 100 µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.

STORAGE/HANDLING: Maintain at –20ºC for one year from date of receipt. Do not aliquot.

RELATED REFERENCE:

Huang, C. et al. (2003) Nature 424:219-223.
Huang, C. et al. (2004) Cell Cycle 3(1):4-6.
Woodrow, M.A. (2003) Exp. Cell. Res. 287(2):325-338.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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