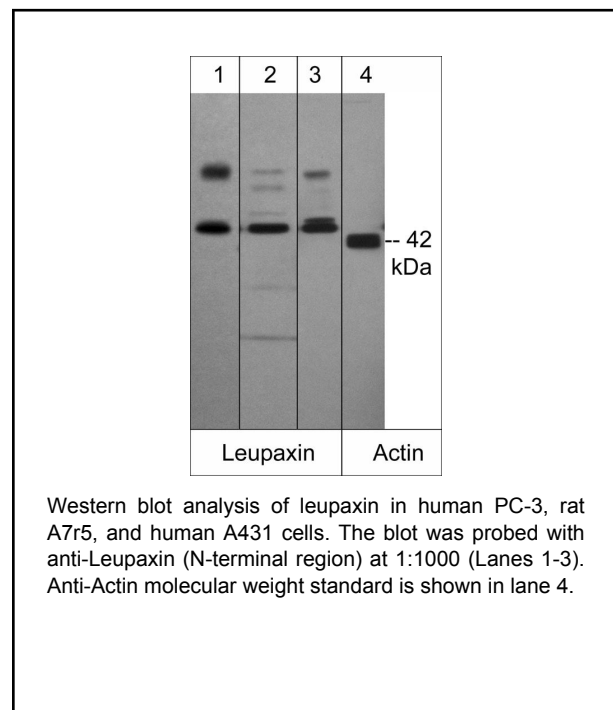


Background

The paxillin family of LIM domain-containing proteins includes paxillin, Hic-5, and leupaxin. Similar to other family members, leupaxin is composed of multiple functional modules, including leucine and aspartate motifs and LIM domains. These domains suggest that leupaxin is a molecular adaptor that may be important for integrin-mediated cell signaling. Leupaxin was identified in leukocytes, and has been shown to be expressed in non-hematopoietic lineage cells, including vascular smooth muscle cells and certain cancer cells. In prostate cancer cells, leupaxin expression intensity is directly linked to cancer progression. Leupaxin localizes to the podosomal signaling complex in murine osteoclasts where it may be important for rearrangement of cytoskeletal components. The function of leupaxin in regulating the cytoskeleton may involve protein-protein interactions between leupaxin and focal adhesion proteins, such as Pyk2, FAK, Src, Lyn, and PTP-PEST.

Background References

Sundberg-Smith, L.J. et al. (2008) *Circ Res.* 102(12):1502.
 Chen, P.W. & Kroog, G.S. (2010) *Cell Adh Migr.* 4(4):527.
 Tanaka, T. et al. (2010) *Cancer Sci.* 101:363.



Applications

WB 1:1000
 ELISA 1:2000

Species Reactivity

Hu, Rt, Ms

Specificity

This antibody was affinity purified using leupaxin (N-terminal region) peptide (without carrier). The antibody detects a 45 kDa* proteins corresponding to the apparent molecular mass of leupaxin on SDS-PAGE immunoblots of human A431 epithelial cells, human PC3 prostate cells, and rat A7r5 smooth muscle cells.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

End user should determine optimal dilution for their particular applications and experiments.
 Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Immunogen

Uniprot ID: O60711

Leupaxin (N-terminal) synthetic peptide (coupled to KLH) corresponding to amino acid residues in the N-terminal region of human leupaxin. This peptide sequence is highly conserved in rat and mouse leupaxin, and has low homology to other paxillin family proteins.

Buffer and Storage

Rabbit polyclonal, affinity-purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Related Products

FM1211 FAK (Tyr-397), phospho-specific Mouse Monoclonal
 PK6070 Paxillin Phospho-Regulation Antibody Sampler Kit
 PK6620 Paxillin Phospho-Ser/Thr Regulation Antibody Sampler Kit
 PK6650 Paxillin Phospho-Tyrosine Regulation Antibody Sampler Kit
 PM2691 PYK2 (Tyr-402), phospho-specific Mouse Monoclonal

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