

Anti-Leupaxin Antibody

Catalog # ABO11504

Product Information

Application	WB, IHC-P
Primary Accession	O60711
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Leupaxin(LPXN) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	9404
Other Names	Leupaxin, LPXN, LDLP
Calculated MW	43332
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat
Subcellular Localization	Cytoplasm. Cell junction, focal adhesion. Nucleus. Cytoplasm, perinuclear region . Cell projection, podosome. Cell membrane. Shuttles between the cytoplasm and nucleus. Recruited to the cell membrane following B- cell antigen receptor (BCR) cross-linking in B-cells. Enhanced focal adhesion kinase activity (PTK2/FAK) attenuates its nuclear accumulation and limits its ability to enhance serum response factor (SRF)-dependent gene transcription. Targeting to focal adhesions is essential for its tyrosine phosphorylation in response to bombesin.
Tissue Specificity	Macrophages, monocytes and osteoclasts (at protein level). Strongly expressed in cells and tissues of hematopoietic origin. Highest expression in lymphoid tissues such as spleen, lymph node, thymus and appendix and in the vascular smooth muscle. Lower levels in bone marrow and fetal liver. Also expressed in peripheral blood lymphocytes and a number of hematopoietic cell lines. Very low levels found in epithelial cell lines. Expressed in prostate cancer (PCa) cells and its expression intensity is directly linked to PCa progression. .
Source	Eukaryota

Protein Name	Leupaxin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Leupaxin(115-129aa KKHLDPKQDHKASLD), different from the related rat sequence by two amino acids, and from the related mouse sequence by three amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the paxillin family.

Protein Information

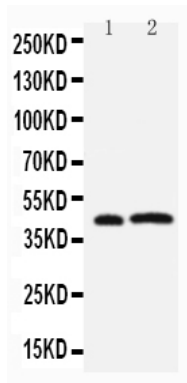
Name	LPXN
Synonyms	LDLP
Function	Transcriptional coactivator for androgen receptor (AR) and serum response factor (SRF). Contributes to the regulation of cell adhesion, spreading and cell migration and acts as a negative regulator in integrin-mediated cell adhesion events. Suppresses the integrin- induced tyrosine phosphorylation of paxillin (PXN). May play a critical role as an adapter protein in the formation of the adhesion zone in osteoclasts. Negatively regulates B-cell antigen receptor (BCR) signaling.
Cellular Location	Cytoplasm. Cell junction, focal adhesion. Nucleus. Cytoplasm, perinuclear region. Cell projection, podosome. Cell membrane. Note=Shuttles between the cytoplasm and nucleus. Recruited to the cell membrane following B-cell antigen receptor (BCR) cross-linking in B-cells. Enhanced focal adhesion kinase activity (PTK2/FAK) attenuates its nuclear accumulation and limits its ability to enhance serum response factor (SRF)-dependent gene transcription. Targeting to focal adhesions is essential for its tyrosine phosphorylation in response to bombesin
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Background

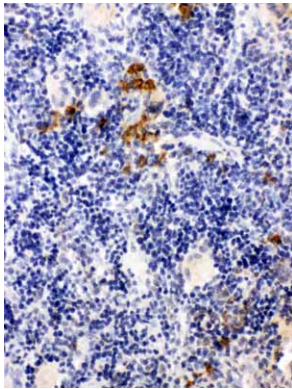
Leupaxin is a protein that in humans is encoded by the LPXN gene. This gene is mapped to 11q12.1. The product encoded by this gene is preferentially expressed in hematopoietic cells and belongs to the paxillin protein family. Similar to other members of this focal-adhesion-associated adaptor-protein family, it has four leucine-rich LD-motifs in the N-terminus and four LIM domains in the C-terminus. It may function in cell

type-specific signaling by associating with PYK2, a member of focal adhesion kinase family. As a substrate for a tyrosine kinase in lymphoid cells, this protein may also function in, and be regulated by, tyrosine kinase activity.

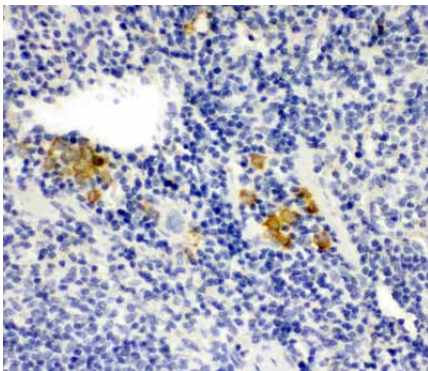
Images



Anti-Leupaxin antibody, ABO11504, Western blotting
Lane 1: Rat Thymus Tissue Lysate
Lane 2: JURKAT Cell Lysate



Anti-Leupaxin antibody, ABO11504, IHC(P)
IHC(P): Rat Spleen Tissue



Anti-Leupaxin antibody, ABO11504, IHC(P)
IHC(P): Mouse Spleen Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.