

Anti-Leupaxin Antibody

Catalog # ABO11504

Specification

Anti-Leupaxin Antibody - Product Information

ApplicationWB, IHC-PPrimary AccessionO60711HostRabbitReactivityHuman, Mouse, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Leupaxin(LPXN) detection. Tested with WB, IHC-P inHuman;Mouse;Rat.Human;Mouse;Rat.

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

Anti-Leupaxin Antibody - Additional Information

Gene ID 9404

Other Names Leupaxin, LPXN, LDLP

Calculated MW 43332 MW KDa

Application Details Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Human, Mouse, Rat, By Heat
br>Western blot, 0.1-0.5 μg/ml, Human, Rat
br>

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.

Protein Name



Leupaxin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human Leupaxin(115-129aa KKHLPDKQDHKASLD), 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 r°Constitution, 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.

Anti-Leupaxin Antibody - 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

Tissue Location

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.

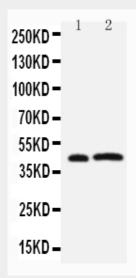
Anti-Leupaxin Antibody - Protocols



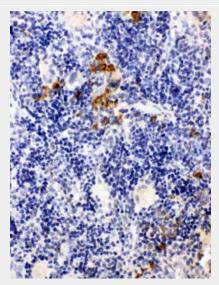
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-Leupaxin Antibody - Images

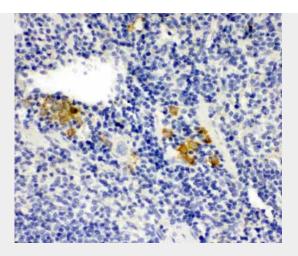


Anti-Leupaxin antibody, ABO11504, Western blottingLane 1: Rat Thymus Tissue LysateLane 2: JURKAT Cell Lysate



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





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

Anti-Leupaxin Antibody - 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.