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KD-Validated Anti-Leucine aminopeptidase 3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1027

Specification

KD-Validated Anti-Leucine aminopeptidase 3 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P28838
Reactivity	**Rat, Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 56 kDa, observed, 52 kDa KDa**
Gene Name	**LAP3**
Aliases	**LAP3; Leucine Aminopeptidase 3; LAPEP; Peptidase S; PEPS; LAP; Cysteinylglycine-S-Conjugate Dipeptidase; Cytosol Aminopeptidase; Proline Aminopeptidase; Leucyl Aminopeptidase; Prolyl Aminopeptidase; EC 3.4.11.1; Epididymis Secretory Protein Li 106; EC 3.4.13.23; EC 3.4.11.5; HEL-S-106; EC 3.4.11;LAP-3**
Immunogen	**A synthesized peptide derived from human LAP3**

KD-Validated Anti-Leucine aminopeptidase 3 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**51056**

Other Names
Cytosol aminopeptidase, 3.4.11.1, Prolyl aminopeptidase, LAP3 (HGNC:18449)

KD-Validated Anti-Leucine aminopeptidase 3 Rabbit Monoclonal Antibody - Protein Information

Name LAP3 (HGNC:18449)

Function
Cytosolic metallopeptidase that catalyzes the removal of unsubstituted N-terminal hydrophobic amino acids from various peptides. The presence of Zn(2+) ions is essential for the peptidase activity, and the association with other cofactors can modulate the substrate spectificity of the enzyme. For instance, in the presence of Mn(2+), it displays a specific Cys-Gly hydrolyzing activity of Cys-Gly-S- conjugates. Involved in the metabolism of glutathione and in the degradation of glutathione S-conjugates, which may play a role in the control of the cell redox status.

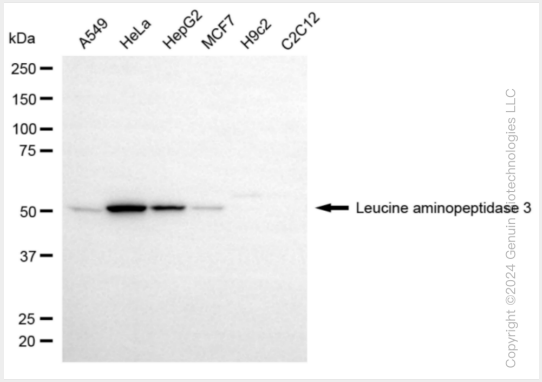
Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q68FS4}.

KD-Validated Anti-Leucine aminopeptidase 3 Rabbit Monoclonal Antibody - Protocols

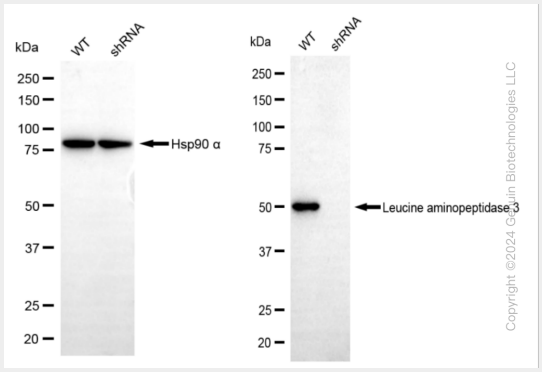
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Leucine aminopeptidase 3 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-leucine aminopeptidase 3 antibody (Cat#AGI1027). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-leucine aminopeptidase 3 antibody (Cat#AGI1027, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-leucine aminopeptidase 3 antibody (Cat#AGI1027). Leucine aminopeptidase 3 expression in wild type (WT) and leucine aminopeptidase 3 (LAP3) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-leucine aminopeptidase 3 antibody (Cat#AGI1027, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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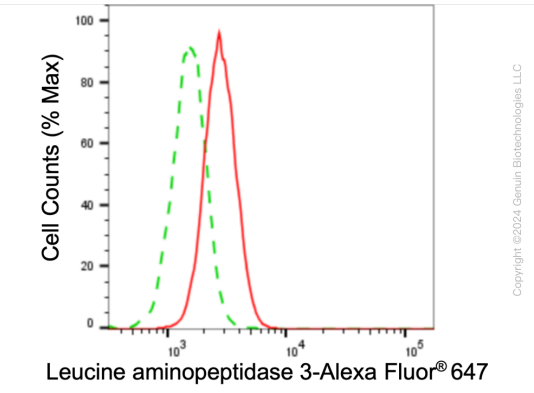
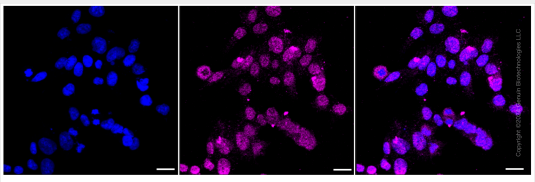


Flow cytometric analysis of leucine aminopeptidase 3 expression in HAP-1 cells using anti-Leucine aminopeptidase 3 antibody (Cat#AGI1027, 1:2,000). Green, isotype control; red, leucine aminopeptidase 3.



Immunocytochemical staining of HAP-1 cells with anti-leucine aminopeptidase 3 antibody (Cat#AGI1027, 1:1,000). Nuclei were stained blue with DAPI; Leucine aminopeptidase 3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.