

Anti-Human LAP3 Antibody [PSH01-26] - BSA and Azide free (Capture)

HA723284



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	ELISA(Cap)
Clone number:	PSH01-26

Description: 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 specificity 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.

Immunogen: Recombinant protein within human LAP3 aa 1-519 / 519.

Positive control: Recombinant Human LAP3 protein.

Subcellular location: Cytoplasm

Database links: SwissProt: P28838 Human | Q9CPY7 Mouse | Q68FS4 Rat

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH01-34] to Human LAP3 antibody (Detector) (HA723285) and Recombinant Human LAP3 protein as the standard. The reference range value is 156.3-20,000 pg/ml.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Images

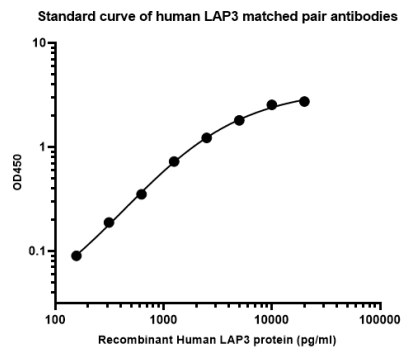


Fig1: Sandwich ELISA analysis of human LAP3 matched pair antibodies

Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA723284) diluted in carbonate/bicarbonate buffer, at a concentration of 5ug/ml overnight at 4°C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human LAP3 protein starting from 20,000 pg/ml to 0 pg/ml and detect antibody (HA723285, Biotin, 0.2 μ g/ml) for 1 hour at 30°C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30°C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

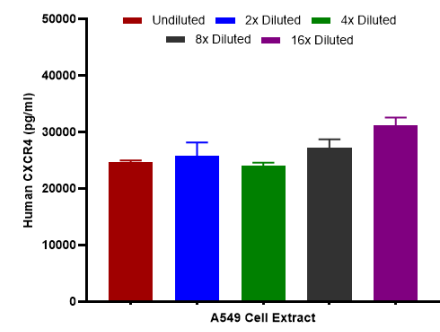


Fig2: Interpolated concentrations of native LAP3 in A549 extract samples based on a 1000 μ g/ml extract load.

Interpolated concentration of native LAP3 was measured in duplicate at different sample concentrations and interpolated from the LAP3 standard curves. The interpolated dilution factor corrected values were plotted (mean \pm SD, n=2). The mean LAP3 concentration was determined to be 26,591 pg/mL in A549 cell extract.

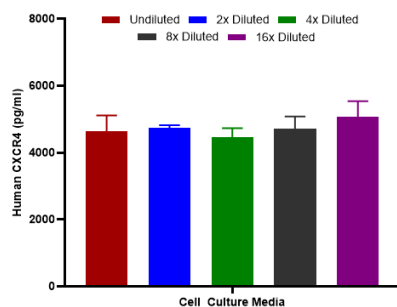


Fig3: Interpolated concentrations of spiked LAP3 in cell culture media samples.

The concentrations of LAP3 were measured in duplicates, interpolated from the LAP3 standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 50%. The interpolated dilution factor corrected values are plotted (mean \pm SD, n=2).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Li L et al. LAP3 contributes to IFN- γ -induced arginine depletion and malignant transformation of bovine mammary epithelial cells. BMC Cancer. 2022 Aug
2. Feng L et al. Cholesterol-induced leucine aminopeptidase 3 (LAP3) upregulation inhibits cell autophagy in pathogenesis of NAFLD. Aging (Albany NY). 2022 Apr

