

Biotin Conjugated Anti-Human Lipocalin-2 Antibody [PSH13-68] - Detector

HA725111B



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det), ELISA
Clone number:	PSH13-68

Description: Lipocalin-2 (LCN2), also known as oncogene 24p3 or neutrophil gelatinase-associated lipocalin (NGAL), is a protein that in humans is encoded by the LCN2 gene. NGAL is involved in innate immunity by sequestering iron and preventing its use by bacteria, thus limiting their growth. It is expressed in neutrophils and in low levels in the kidney, prostate, and epithelia of the respiratory and alimentary tracts. NGAL is used as a biomarker of kidney injury.

Conjugate: Biotin-conjugated

Immunogen: Recombinant protein within Human Lipocalin-2 aa 21-198 (HA211028).

Positive control: Recombinant Human Lipocalin-2 protein (HA211028).

Subcellular location: Secreted, Cytoplasmic granule lumen, Cytoplasmic vesicle lumen.

Database links: SwissProt: P80188 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH13-67] to Human Lipocalin-2 antibody (Capture) (HA725109) and recombinant Human Lipocalin-2 protein (HA211028) as the standard. The reference range value is 46.9-6,000 pg/mL.

ELISA Use at an assay dependent concentration.

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% ProClin300.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

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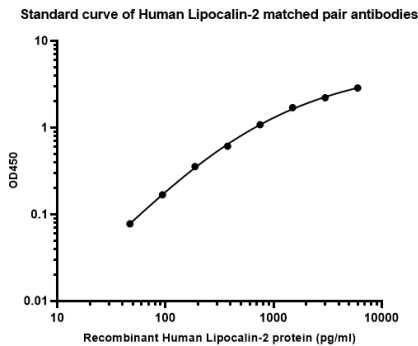
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Sandwich ELISA analysis of Human Lipocalin-2 matched pair antibodies

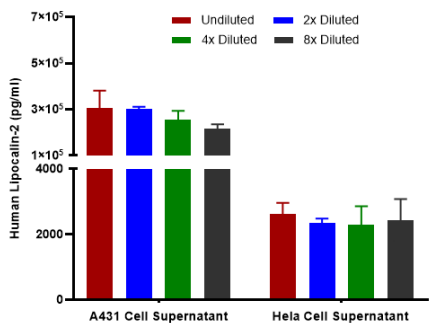
Capture: HA725109, Human Lipocalin-2 Rabbit mAb [PSH13-67]
Detector: HA725110, Human Lipocalin-2 Rabbit mAb [PSH13-68]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA725109) diluted in carbonate/bicarbonate buffer, at a concentration of 2ug/ml overnight at 4 $^{\circ}$ 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 Lipocalin-2 protein (HA211028) starting from 6,000 pg/ml to 0 pg/ml and detect antibody (HA725110, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ 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 $^{\circ}$ 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 Lipocalin-2 in human samples.

Capture: HA725109, Human Lipocalin-2 Rabbit mAb [PSH13-67]
Detector: HA725110, Human Lipocalin-2 Rabbit mAb [PSH13-68]



Interpolated concentration of native Lipocalin-2 was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean \pm SD, n=2). The mean Lipocalin-2 concentration was determined to be 269,116 pg/mL in A431 cell culture supernatant and 2,421pg/mL in Human urine.

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

Background References

1. Gupta U et al. Increased LCN2 (lipocalin 2) in the RPE decreases autophagy and activates inflammasome-ferroptosis processes in a mouse model of dry AMD. Autophagy. 2023 Jan
2. Zhao RY et al. Role of lipocalin 2 in stroke. Neurobiol Dis. 2023 Apr