

# Anti-Lipocalin-2 Antibody [PSH20-68]

## HA724166



|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| <b>Product Type:</b>       | Recombinant Rabbit monoclonal IgG, primary antibodies |
| <b>Species reactivity:</b> | Human                                                 |
| <b>Applications:</b>       | WB, IF-Cell, FC                                       |
| <b>Molecular Wt:</b>       | Predicted band size: 23 kDa                           |
| <b>Clone number:</b>       | PSH20-68                                              |

**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.

**Immunogen:** Recombinant protein within human Lipocalin-2 aa 1-198.

**Positive control:** HaCaT cell lysate, HT-29 cell lysate, HT-29.

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

**Database links:** SwissProt: P80188 Human

**Recommended Dilutions:**

|                |         |
|----------------|---------|
| <b>WB</b>      | 1:5,000 |
| <b>IF-Cell</b> | 1:100   |
| <b>FC</b>      | 1:1,000 |

**Storage Buffer:** 1\*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclease 950.

**Storage Instruction:** Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

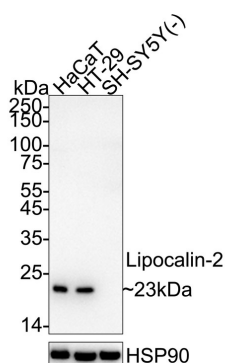
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images

**Fig1:** Western blot analysis of Lipocalin-2 on different lysates with Rabbit anti-Lipocalin-2 antibody (HA724166) at 1/5,000 dilution.

Lane 1: HaCaT cell lysate  
Lane 2: HT-29 cell lysate  
Lane 3: SH-SY5Y cell lysate (negative)



Lysates/proteins at 20 µg/Lane.

Predicted band size: 23 kDa

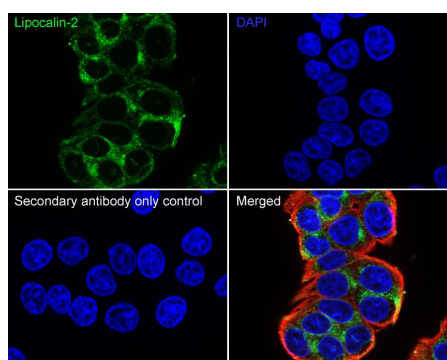
Observed band size: 23 kDa

Exposure time: 3 minutes; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA724166) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4 °C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Immunocytochemistry analysis of HT-29 cells labeling Lipocalin-2 with Rabbit anti-Lipocalin-2 antibody (HA724166) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Lipocalin-2 antibody (HA724166) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (HA601187, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

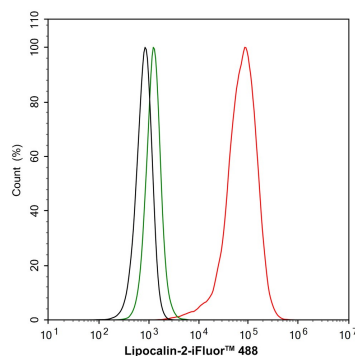
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**Fig3:** Flow cytometric analysis of HT-29 cells labeling Lipocalin-2.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA724166, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

**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

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