# ARG63758
# anti-Lipocalin 2 antibody

Package: 100 µg
Store at: -20°C

## Summary

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| Product Description | Goat Polyclonal antibody recognizes Lipocalin 2 |
| Tested Reactivity | Hu |
| Tested Application | IHC-P, WB |
| Host | Goat |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | Lipocalin 2 |
| Species | Human |
| Immunogen | C-AILREDKDPQKMY |
| Conjugation | Un-conjugated |
| Alternate Names | Siderocalin LCN2; Oncogene 24p3; MSFI; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; Lipocalin-2; p25; Neutrophil gelatinase-associated lipocalin; 24p3; NGAL |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| IHC-P | 2 - 3 µg/ml |
| WB | 0.01 - 0.03 µg/ml |

Application Note

IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

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| Form | Liquid |
| Purification | Purified from goat serum by antigen affinity chromatography. |
| Buffer | Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 0.5% BSA |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

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| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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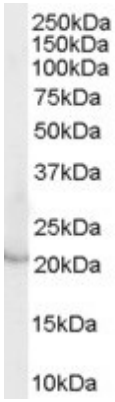
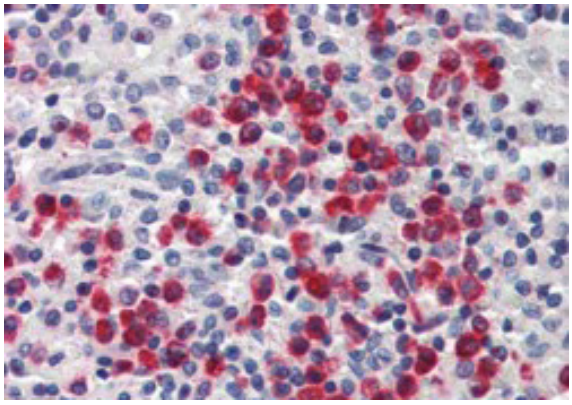
| Database links | GeneID: 3934 Human<br><br>Swiss-port # P80188 Human |
| Gene Symbol | LCN2 |
| Gene Full Name | lipocalin 2 |
| Function | Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. Binds iron through association with 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestrating iron, leading to limit bacterial growth. [UniProt] |
| Research Area | Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Immune System antibody; Metabolism antibody; Signaling Transduction antibody |
| Calculated Mw | 23 kDa |

## Images




ARG63758 anti-Lipocalin 2 antibody WB image

Western blot: Human Kidney lysate (35 µg protein in RIPA buffer) stained with ARG63758 anti-Lipocalin 2 antibody at 0.03 µg/ml dilution.



ARG63758 anti-Lipocalin 2 antibody IHC-P image

Immunohistochemistry: Paraffin embedded Human Spleen. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG63758 anti-Lipocalin 2 antibody at 2.5 µg/ml dilution followed by AP-staining.