

**Lipocalin-2 Antibody**  
**Purified Rabbit Polyclonal Antibody**  
**Catalog # ABV11565****Specification**

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**Lipocalin-2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P80188</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22588

**Lipocalin-2 Antibody - Additional Information****Gene ID** 3934**Other Names**

Lcn2, Lcn 2, Lipocalin2, Lipocalin 2

**Target/Specificity**

Lipocalin-2

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-Lipocalin 2 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Background Descriptions****Precautions**

Lipocalin-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Lipocalin-2 Antibody - Protein Information****Name** LCN2**Synonyms** HNL, NGAL {ECO:0000303|PubMed:8060329}**Function**

Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development (PubMed:&lt;a href="http://www.uniprot.org/citations/12453413" target="\_blank"&gt;12453413&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/27780864"

target="\_blank">27780864</a>, PubMed:<a href="http://www.uniprot.org/citations/20581821" target="\_blank">20581821</a>). Binds iron through association with 2,3-dihydroxybenzoic acid (2,3-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 BCL2L1/BIM, resulting in apoptosis (By similarity). Involved in innate immunity; limits bacterial proliferation by sequestering iron bound to microbial siderophores, such as enterobactin (PubMed:<a href="http://www.uniprot.org/citations/27780864" target="\_blank">27780864</a>). Can also bind siderophores from M.tuberculosis (PubMed:<a href="http://www.uniprot.org/citations/15642259" target="\_blank">15642259</a>, PubMed:<a href="http://www.uniprot.org/citations/21978368" target="\_blank">21978368</a>).

### Cellular Location

Secreted. Cytoplasmic granule lumen. Cytoplasmic vesicle lumen. Note=Upon binding to the SLC22A17 (24p3R) receptor, it is internalized (By similarity). Releases the bound iron in the acidic lumen of cytoplasmic vesicles (PubMed:12453413, PubMed:20581821).  
{ECO:0000250|UniProtKB:P11672, ECO:0000269|PubMed:12453413, ECO:0000269|PubMed:20581821}

### Tissue Location

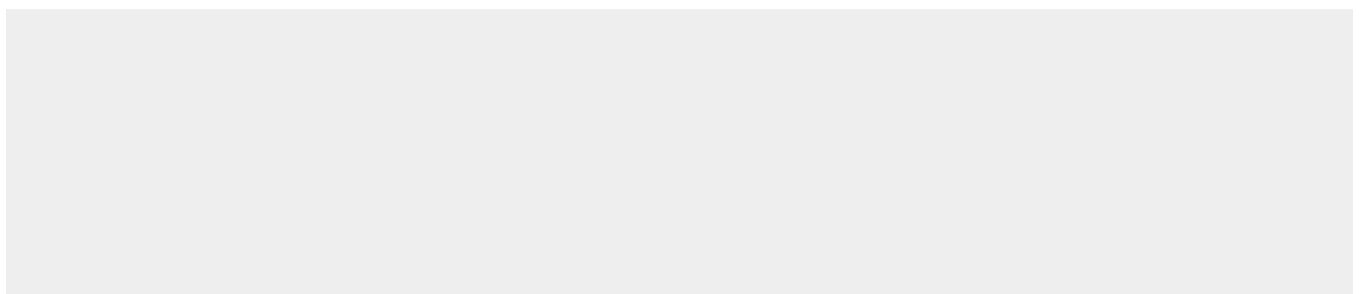
Detected in neutrophils (at protein level) (PubMed:7683678, PubMed:8298140). Expressed in bone marrow and in tissues that are prone to exposure to microorganism (PubMed:9339356) High expression is found in bone marrow as well as in uterus, prostate, salivary gland, stomach, appendix, colon, trachea and lung (PubMed:9339356). Expressed in the medullary tubules of the kidney (PubMed:30418175). Not found in the small intestine or peripheral blood leukocytes (PubMed:9339356).

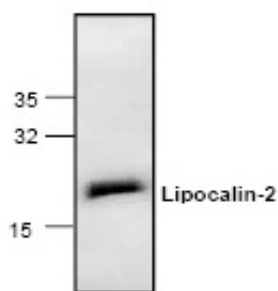
## Lipocalin-2 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Lipocalin-2 Antibody - Images





Western blot analysis of using recombinant human Lipocalin-2.

#### **Lipocalin-2 Antibody - Background**

Lipocalin 2 is from a family of proteins that are involved in the transportation of small hydrophobic molecules including steroids, retinoids, bilin and retinods. Lipocalins have been linked to many biochemical processes such as immune response, pheromone transport, biological prostaglandin synthesis, retinoid binding, and cancer cell interactions.