# Human Lipocalin-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1708

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects human Lipocalin-1 in direct ELISAs and Western blots. In these formats, less than 5% cross-reactivity with recombinant human Lipocalin-2 is observed. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | Mouse myeloma cell line NS0-derived recombinant human Lipocalin-1 (R&D Systems, Catalog # 1708-PI)<br>His19-Asp176<br>Accession # P31025 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. |

## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 0.1 µg/mL | Recombinant Human Lipocalin-1 (Catalog # 1708-PI) |

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.2 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month from date of receipt, 2 to 8 °C, reconstituted.<br>● 6 months from date of receipt, -20 to -70 °C, reconstituted. |

## BACKGROUND

Lipocalin-1, also known as tear prealbumin or von Ebner's gland protein (VEGP), is encoded by the LCN1 gene (1 - 3). It is a member of the Lipocalin superfamily that binds many different classes of lipophylic chemicals (4). Lipocalin-1 contains three sequence motifs similar to the cystatins, a superfamily of cysteine protease inhibitors (5). In fact, it has been suggested that Lipocalin-1 is a physiological inhibitor of cysteine proteases and plays a role in the control of inflammatory processes in oral and ocular tissues (5). rhLipocalin-1 corresponds to the mature and secreted protein. It is a weak inhibitor of cysteine proteases such as cathepsin V, which is similar to rhCystatin S (R&D Systems, Catalog # 1296-PI).

**References:**


1. Redl, B. *et al.* (1992) J. Biol. Chem. **267**:20282.
2. Blaker, M. *et al.* (1993) Biochim. Biophys. Acta **1172**:131.
3. Lassagne, H. and A.M. Gachon (1993) Exp. Eye Res. **56**:605.
4. Redl, B. *et al.* (2000) Biochim. Biophys. Acta **1482**:241.
5. van't Hof, W. *et al.* (1997) J. Biol. Chem. **272**:1837.