

**Human CellExp Lipocalin-2 / LCN2, human recombinant protein**  
**NGAL, LCN2, Lipocalin-2, 24p3, MSFI, Siderocalin; Oncogene 24p3; Neutrophil**  
**Gelatinase-associated Li**  
**Catalog # PBV11081r**

## Specification

---

### Human CellExp Lipocalin-2 / LCN2, human recombinant protein - Product info

Primary Accession  
Calculated MW

[P80188](#)

This protein is fused with 6×his tag at C-terminal and has a calculated MW of 22 kDa. The predicted N-terminal is Gln 21. DTT-reduced protein migrates as 23-25 kDa. kDa

### Human CellExp Lipocalin-2 / LCN2, human recombinant protein - Additional Info

Gene ID  
Gene Symbol

**3934**  
**LCN2**

#### Other Names

NGAL, LCN2, Lipocalin-2, 24p3, MSFI, Siderocalin; Oncogene 24p3; Neutrophil Gelatinase-associated Lipocalin; NGAL.

Gene Source  
Source  
Assay&Purity  
Assay2&Purity2  
Recombinant  
Results

**Human**  
**HEK293 cells**  
**SDS-PAGE; ≥95%**  
**N/A;**  
**Yes**  
**Measured by its ability to bind Iron (III) dihydroxybenzoic acid. [Fe(DHBA)3]. The binding of Fe (DHBA)3 results in the quenching of Trp fluorescence in rhLCN2. rhLCN2 can bind >1.5 µM of Fe(DHBA)3.**

**Target/Specificity**  
Lipocalin-2

#### Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**Format**  
Lyophilized

**Storage**  
-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

### Human CellExp Lipocalin-2 / LCN2, human recombinant protein - 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](#)

#### **Human CellExp Lipocalin-2 / LCN2, human recombinant protein - Images**

#### **Human CellExp Lipocalin-2 / LCN2, human recombinant protein - Background**

Lipocalin-2 (LCN2), also known as oncogene 24p3 or neutrophil gelatinase-associated lipocalin (NGAL), MSFI, The binding of lipocalin-2 to bacterial siderophores is important in the innate immune response to bacterial infection. Upon encountering invading bacteria the toll-like receptors on immune cells stimulate the synthesis and secretion of lipocalin-2. Secreted lipocalin-2 then limits bacterial growth by sequestering iron-containing siderophores. Lipocalin-2 also functions as a growth factor. LCN2 is strongly upregulated during inflammation and is upregulated by interleukin 1 (but not TNF alpha) in humans. There are indications that some forms of acne could be caused due to the gene not being transcribed, and that Isotretinoin corrects this. NFAT3 (NFATc4) NFAT by blocking the expression of LCN2 inhibits breast carcinoma cell motility. Recent studies have revealed that NGAL plays an important role in the physiopathology of chronic myeloid leukaemia (CML) mediated by BCR-ABL.

#### **Human CellExp Lipocalin-2 / LCN2, human recombinant protein - References**

Bundgaard J.R.,et al.Biochem. Biophys. Res. Commun. 202:1468-1475(1994).  
Cowland J.B.,et al.Genomics 45:17-23(1997).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Humphray S.J.,et al.Nature 429:369-374(2004).