

## 32-8685: Recombinant Mouse NGAL/Lipocalin-2/LCN2 (C-Fc)

**Gene :** Lcn2  
**Gene ID :** 16819  
**Uniprot ID :** P11672

### Description

Source: Human Cells.  
MW :48kD.

Recombinant Mouse NGAL is produced by our Mammalian expression system and the target gene encoding Gln21-Asn200 is expressed with a Fc tag at the C-terminus. Lipocalin-2, also known as Neutrophil Gelatinase-Associated Lipocalin (NGAL), is a secretory protein of the lipocalin superfamily. Lipocalin-2 contains a signal peptide that enables it to be secreted and form complexes with matrix metalloproteinase-9 (MMP-9) through disulfide bonds. Similar to other lipocalin family members, Lipocalin-2 is involved in diverse cellular processes, including the transport of small hydrophobic molecules, protection of MMP-9 from proteolytic degradation, and cell signaling. Furthermore, Lipocalin-2 can tightly bind to bacterial siderophore through a cell surface receptor, possibly serving as a potent bacteriostatic agent by sequestering iron, regulating innate immunity and protecting kidney epithelial cells from ischemia-reperfusion injury. This protein is mainly expressed in neutrophils and in lower levels in the kidney, prostate, and epithelia of the respiratory and alimentary tracts. Recent evidence also suggests its role as a biomarker for renal injury and inflammation.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM MES, 150mM NaCl, 10% Glycerol, pH 5.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** QDSTQNLIPAPSLLTVPLQPDFRSDQFRGRWYVVLGAGNAVQKKTEGSFTMYSTIYELQENNSYNVTSILVRDQ  
DQGCYRWIRTFVPSSRAGQFTLGNMHRYPQVQSYNVQVATTDYNOFAMVFFRKTSENKQYFKITLYGRTKELS  
PELKERFTRFAKSLGLKDDNIIFSVPTDQCIDNVDDIEGRMDEPKSCDKTHTCPPAPPELLGGPSVFLFPPKPKD  
TLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKC  
KVSNAKALPAIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTP  
VLDSGDGSFFLYSKLTVDKSRWQQGNVVFSCVMHEALHNHYTQKLSLSLSPGK

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.