

## Recombinant Human Lipocalin-2/NGAL/LCN2 Protein

RPCB1830

### Protein Information

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<b>Size:</b>	10 µg , 20 µg , 50 µg , 100 µg	<b>Tag:</b>	C-hFC
<b>Reactivity:</b>	Human	<b>Expressed Host:</b>	HEK293 cells
<b>Calculated MW:</b>	46.51 kDa	<b>Observed MW:</b>	55-60 kDa

### Background

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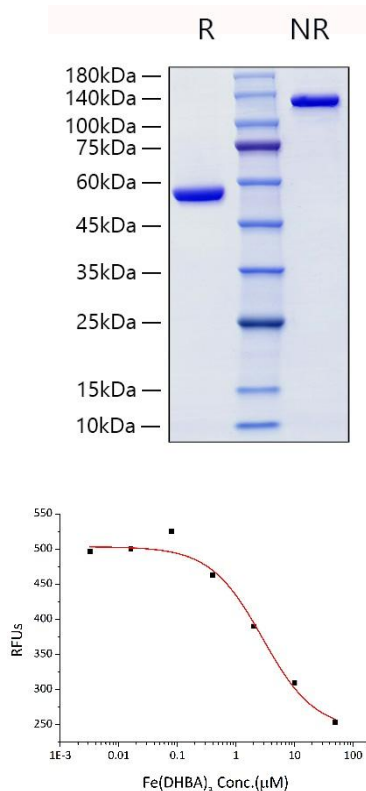
Lipocalin-2 (LCN2), also known as neutrophil gelatinase-associated lipocalin (NGAL), is a 25 kDa protein belonging to the lipocalin superfamily. Members of this family transport small hydrophobic molecules such as lipids, steroid hormones and retinoids. The protein is a neutrophil gelatinase-associated lipocalin and plays a role in innate immunity by limiting bacterial growth as a result of sequestering iron-containing siderophores. The presence of this protein in blood and urine is an early biomarker of acute kidney injury. This protein is thought to be involved in multiple cellular processes, including maintenance of skin homeostasis, and suppression of invasiveness and metastasis. Mice lacking this gene are more susceptible to bacterial infection than wild type mice.

### Properties

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<b>Synonyms:</b>	p25, 24p3, MSFI, NGAL, Lipocalin-2, LCN2
<b>Gene ID:</b>	3934
<b>Endotoxin:</b>	< 0.01 EU/µg of the protein by LAL method
<b>Description:</b>	High quality, high purity and low endotoxin recombinant Recombinant Human Lipocalin-2/NGAL/LCN2 Protein (RPCB1830), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.
<b>Purity:</b>	≥ 95 % as determined by SDS-PAGE.
<b>Storage:</b>	Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

## Validation Data



Recombinant Human Lipocalin-2/NGAL/LCN2 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.

Measured by its ability to bind Iron(III) dihydroxybenzoic acid [Fe(DHBA)<sub>3</sub>]. The binding of Fe(DHBA)<sub>3</sub> results in the quenching of Trp fluorescence in recombinant mouse Lipocalin-2. Recombinant human Lipocalin-2 can bind >2.84 μM of Fe(DHBA)<sub>3</sub>.