

Datasheet for ABIN7275321

Lipocalin 2 Protein (LCN2) (AA 21-198) (Fc Tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Lipocalin 2 (LCN2)
Protein Characteristics:	AA 21-198
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Lipocalin 2 protein is labelled with Fc Tag.

Product Details

Purpose:	Human NGAL/Lipocalin-2 Protein
Sequence:	Gln21-Gly198
Characteristics:	Recombinant Human NGAL/Lipocalin-2 Protein is expressed from HEK293 with hFc tag at the C-Terminus.It contains Gln21-Gly198.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human NGAL, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-NGAL Antibody, hFc Tag with the EC50 19.1ng/ml determined by ELISA. See testing image for detail.

Target Details

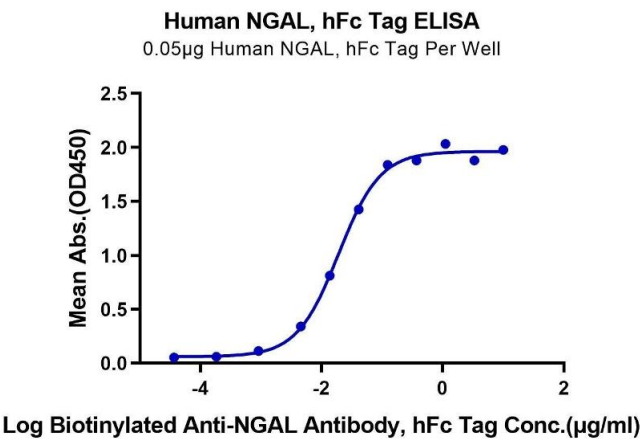
Target:	Lipocalin 2 (LCN2)
Alternative Name:	NGAL (LCN2 Products)
Background:	Acute kidney injury (AKI) is one of the most common complications of various serious conditions, and early diagnosis is therefore critical for the treatment of AKI. Recent evidence demonstrates that neutrophil gelatinase- associated lipocalin (NGAL) is closely associated with AKI. Several experimental and clinical studies have shown that the expression of urine and serum NGAL increases significantly in AKI. NGAL shows potential to be a new effective early biochemical marker of AKI. Further studies are needed to confirm the significant advantages of NGAL in the diagnosis of early AKI and its value in clinical applications.
Molecular Weight:	47.2 kDa. Due to glycosylation, the protein migrates to 48-52 kDa based on Tris-Bis PAGE result.
Pathways:	Cellular Response to Molecule of Bacterial Origin , Transition Metal Ion Homeostasis

Application Details

Restrictions:	For Research Use only
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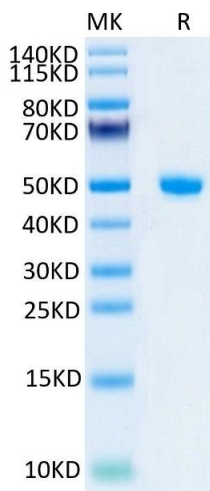
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in 50 mM MES,150 mM NaCl (pH 6.5).
Buffer:	Lyophilized from 0.22µm filtered solution in 50 mM MES,150 mM NaCl (pH 6.5). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



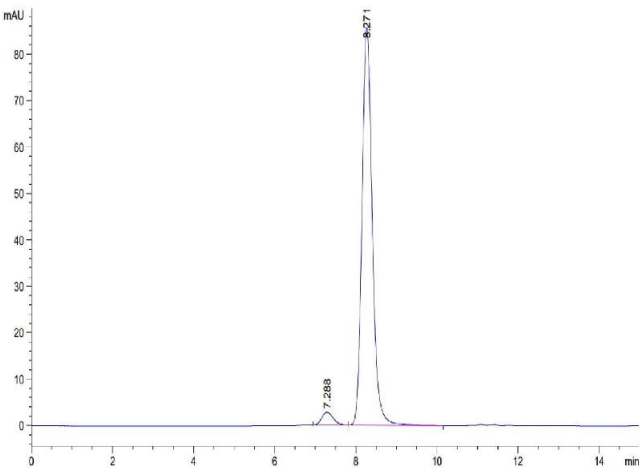
ELISA

Image 1. Immobilized Human NGAL, hFc Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Anti-NGAL Antibody, hFc Tag with the EC50 19.1 ng/mL determined by ELISA.



SDS-PAGE

Image 2. Human NGAL/Lipocalin-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human NGAL/Lipocalin-2 is greater than 95 % as determined by SEC-HPLC.