

Datasheet for ABIN7275319

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

Overview

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

Product Details

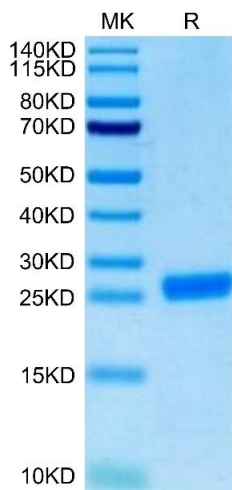
Purpose:	Cynomolgus NGAL/Lipocalin-2 Protein
Sequence:	Gln21-Gly198
Characteristics:	Recombinant Cynomolgus NGAL/Lipocalin-2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln21-Gly198.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Cynomolgus NGAL, His Tag at 0.2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-NGAL Antibody, hFc Tag with the EC50 of 11ng/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:	21.51 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.
NCBI Accession:	XP_005580845
Pathways:	Cellular Response to Molecule of Bacterial Origin , Transition Metal Ion Homeostasis

Application Details

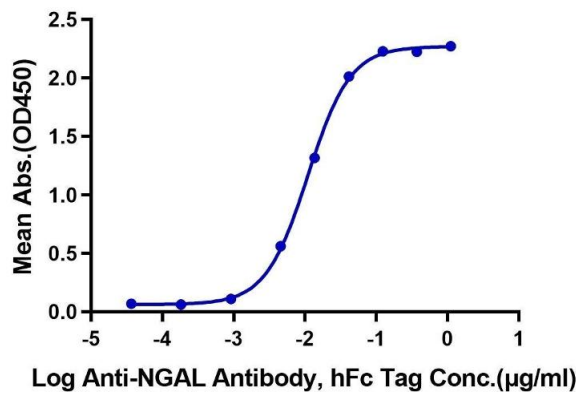
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). 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



SDS-PAGE

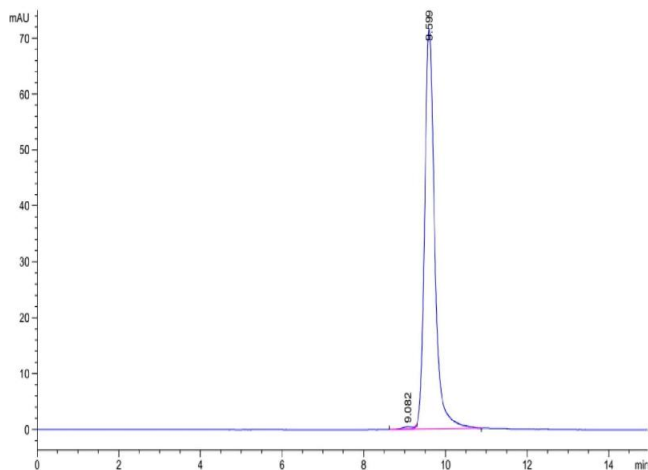
Image 1. Cynomolgus NGAL on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Cynomolgus NGAL, His Tag ELISA
0.02µg Cynomolgus NGAL, His Tag Per Well



ELISA

Image 2. Immobilized Cynomolgus NGAL, His Tag at 0.2 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-NGAL Antibody, hFc Tag with the EC50 of 11 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Cynomolgus NGAL is greater than 95 % as determined by SEC-HPLC.