Human NGAL/Lipocalin-2 Protein

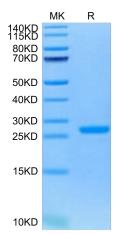
Cat. No. NGL-HM102

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Description	
Source	Recombinant Human NGAL/Lipocalin-2 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains GIn21-Gly198.
Accession	P80188-1
Molecular Weight	The protein has a predicted MW of 21.64 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before Iyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
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.

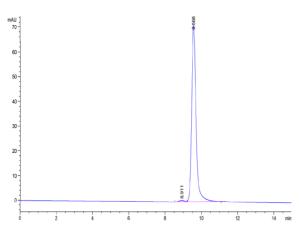
Assay Data





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

SEC-HPLC



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

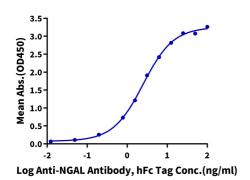
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Assay Data

ELISA Data

Human NGAL, His Tag ELISA 0.1µg Human NGAL, His Tag Per Well



Immobilized Human NGAL, His Tag at 1μ g/ml (100 μ I/Well) on the plate. Dose response curve for Anti-NGAL Antibody, hFc Tag with the EC50 of 2.5ng/ml determined by ELISA (QC Test).

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