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# Lipocalin 2 Protein (LCN2) (His tag)



Image



#### Overview

Quantity:	100 μg
Target:	Lipocalin 2 (LCN2)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Lipocalin 2 protein is labelled with His tag.

#### **Product Details**

Purpose:	Recombinant Mouse NGAL/Lipocalin-2 Protein (His Tag)(Active)
Sequence:	Met 1-Asn 200
Characteristics:	A DNA sequence encoding the mouse LCN2 (NP_032517.1) precursor (Met 1-Asn 200) was expressed with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per $\mu g$ of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to bind Iron(III) dihydroxybenzoic acid [Fe(DHBA)3]. The binding of Fe(DHBA)3 results in the quenching of Trp fluorescence in recombinant mouse Lipocalin-2. Recombinant mouse Lipocalin-2 can bind >1.0 µM of Fe(DHBA)3.

#### **Target Details**

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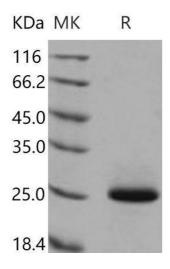
## **Target Details**

Alternative Name:	NGAL/Lipocalin-2 (LCN2 Products)
Background:	Background: Lipocalin-2 (LCN2), also known as neutrophil gelatinase-associated lipocalin
	(NGAL), is a 25 kDa protein belonging to the lipocalin superfamily. It was initially found in
	activated neutrophils, however, many other cells, like kidney tubular cells, may produce NGAL ir
	response to various insults. This protein is released from injured tubular cells after various
	damaging stimuli, is already known by nephrologists as one of the most promising biomarkers
	of incoming Acute Kidney Injury (AKI). Recent evidence also suggests its role as a biomarker in
	a variety of other renal and non-renal conditions. Moreover, recent studies seem to suggest a
	potential involvement of this factor also in the genesis and progression of chronic kidney
	diseases. NGAL is the first known mammalian protein which specifically binds organic
	molecules called siderophores, which are high-affinity iron chelators. NGAL, first known as an
	antibacterial factor of natural immunity, and an acute phase protein, is currently one of the
	most interesting and enigmatic proteins involved in the process of tumor development. acting
	as an intracellular iron carrier and protecting MMP9 from proteolytic degradation, NGAL has a
	clear pro-tumoral effect, as has already been observed in different tumors (e.g. breast,
	stomach, oesophagus, brain) in humans. In thyroid carcinomas, NGAL is strongly induced by
	NF-kB, an important factor involved both in tumor growth and in the link between chronic
	inflammation and neoplastic development. Thus, Lipocalin-2 (LCN2/NGAL) has been implicated
	in a variety of processes including cell differentiation, proliferation, survival and morphogenesis
	Synonym: Neutrophil gelatinase-associated lipocalin, NGAL, Lipocalin-2, SV-40-induced 24P3
	protein, Siderocalin LCN2, p25, LCN2
Molecular Weight:	22.3 kDa
NCBI Accession:	NP_032517
Pathways:	Cellular Response to Molecule of Bacterial Origin, Transition Metal Ion Homeostasis
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.

#### Handling

Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

#### **Images**



## **Western Blotting**

Image 1.