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Datasheet for ABIN7321297 Lipocalin 2 Protein (LCN2) (His tag)



Overview	
Quantity:	100 µg
Target:	Lipocalin 2 (LCN2)
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Lipocalin 2 protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Rat NGAL/LCN2 Protein (His Tag)
Sequence:	GIn21-Asn198
Characteristics:	A DNA sequence encoding the Rat NGAL/LCN2 (P30152-1) (Gln21-Asn198) was expressed with a polyhistidine tag at the N-terminus.
Purity:	>90 % as determined by reducing SDS-PAGE.
Target Details	
Target:	Lipocalin 2 (LCN2)
Alternative Name:	NGAL/LCN2 (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 in

response to various insults. This protein is released from injured tubular cells after various

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Buffer:

Storage:

Storage Comment:

	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: 24p3,25 kDa alpha 2 microglobulin related subunit of MMP9,Alpha 2 microglobulin
	related protein,HGNC:6526,Lcn 2,Lipocalin-2,Migration stimulating factor inhibitor,MSFI
	,Oncogene 24p3,p25,Siderocalin,siderocalin LCN2,SV40 induced 24P3
	protein,Uterocalin,Neutrophil Gelatinase Associated Lipocalin
Molecular Weight:	20.5kDa
Pathways:	Cellular Response to Molecule of Bacterial Origin, Transition Metal Ion Homeostasis
Application Details	
Restrictions:	For Research Use only
Handling	
	Lyophilized
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.

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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

Lyophilized from sterile PBS, pH 7.4

samples are stable at < -20°C for 3 months.

4 °C,-20 °C,-80 °C