

Recombinant human monomer NGAL (rhNGAL)

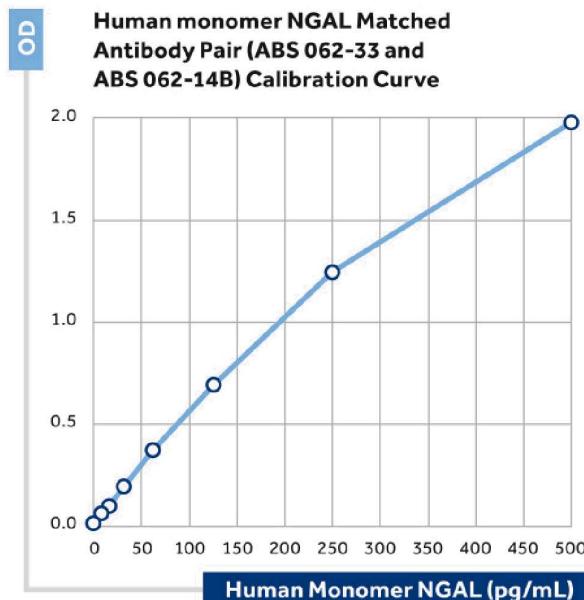
CAT. NO. SP001RA

OVERVIEW

Product Name	Recombinant human monomer NGAL (rhNGAL)	Expression Host	E. coli BL21 (DE3)
Type	Recombinant protein	Gene ID	3934
Description	Neutrophil gelatinase-associated lipocalin (NGAL; also called lipocalin 2, siderocalin and neutrophil lipocalin) is a member of the lipocalin family of proteins which bind and transport small lipophilic molecules. NGAL is released by activated neutrophils and occurs as 25-kDa glycosylated single protein chain monomers, which form dimers and small amounts of higher oligomers, as well as complexes with matrix metalloproteinase 9 (MMP-9; gelatinase B). (2) Low level expression of NGAL in a variety of epithelia may be increased in inflammation or cancers. (3) Expression of NGAL in the kidney is dramatically increased by acute kidney injury.		
Tested Applications	ELISA		

PROPERTIES

Form	Liquid
Unit Size	1 mL
Concentration	1000 pg/mL ± 15%
Purification	IMAC (Immobilized Metal Affinity Chromatography) as a first purification step, followed by proteolytic cleavage of the affinity tag and size exclusion chromatography.
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl, 0.5% BSA; 0.5% Tween 20; 0.0016% Phenol red; 0.1% Proclin 950
Storage condition	2-8°C without exposure to light
Safety	Wear protective clothing



TESTED APPLICATIONS

ELISA This antigen is well suited as a standard in NGAL quantifying assays, such as ELISA.

SCIENTIFIC REFERENCES

1. Bangert et al (2013) The Monomer is the Major Form of NGAL in Urine and Plasma in Severe Sepsis J Am Soc Nephrol 24: 368A.
2. Kjeldsen L et al (1993) Isolation and primary structure of NGAL, a novel protein associated with human neutrophil gelatinase. J Biol Chem 268:10425-10432.
3. Nielsen BS et al (1996) Induction of NGAL synthesis in epithelial cells of human colorectal neoplasia and inflammatory bowel diseases. Gut 38:414-420

CONDITIONS

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