

## Recombinant human monomer NGAL (rhNGAL)

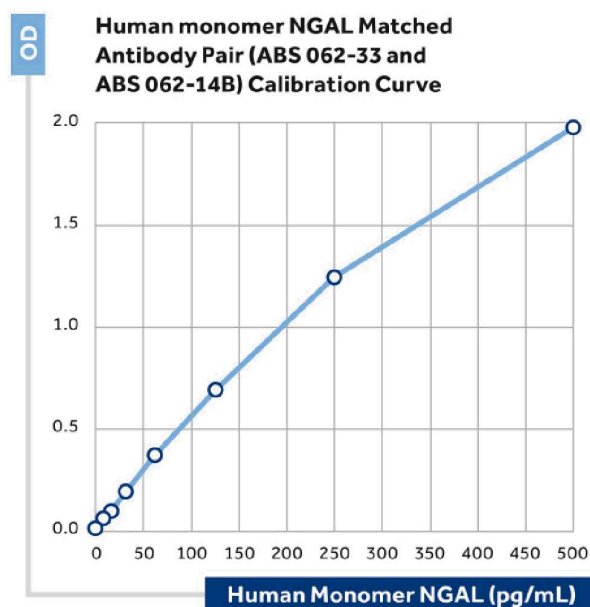
CAT. NO. SP001RA

### OVERVIEW

<b>Product Name</b>	Recombinant human monomer NGAL (rhNGAL)	<b>Expression Host</b>	E. coli BL21 (DE3)
<b>Type</b>	Recombinant protein	<b>Gene ID</b>	3934
<b>Description</b>	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.		
<b>Tested Applications</b>	ELISA		

### PROPERTIES

<b>Form</b>	Liqued
<b>Unit Size</b>	1 mL
<b>Concentration</b>	1000 pg/mL±15%
<b>Purification</b>	IMAC (Immobilized Metal Affinity Chromatography) as a first purification step, followed by proteolytic cleavage of the affinity tag and size exclusion chromatography.
<b>Storage buffer</b>	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
<b>Storage condition</b>	2-8°C without exposure to light
<b>Safety</b>	Wear protective clothing



### TESTED APPLICATIONS

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

### SCIENTIFIC REFERENCES

- 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.
- 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.
- 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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