PRODUCT NAME  
Recombinant human monomer NGAL (rhNGAL)  
Recombinant protein

PRODUCT NO.  
SP001RA

PRESENTATION  
Production: E. coli  
Source: Full length amino acid sequence  
Content: 1 mL, 1000 pg/mL +/- 15%  
Solvent: 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: 2-8°C

PREPARATION  
This product is purified full length recombinant protein without any tags, produced from E. coli

APPLICATION  
ELISA  
This antigen is well suited as a standard in human NGAL quantifying assays, such as e.g. ELISA.  
The figure illustrates the calibration curve of a sandwich assay with ABS 062-33 as the capture antibody and ABS 062-14B as the biotinylated detection antibody (1).

BACKGROUND  
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 metalloprotease 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.

REFERENCES  

CONDITIONS  
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