

PRODUCT NAME **Recombinant Rat NGAL**  
**Recombinant protein**

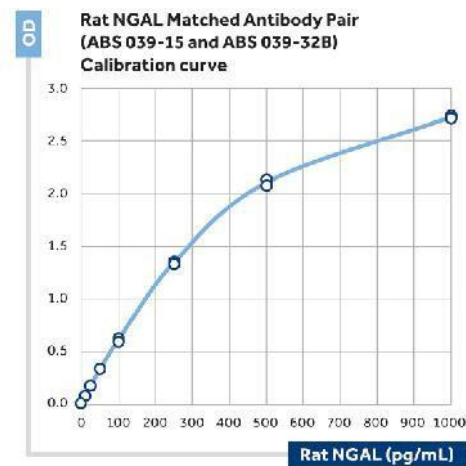
PRODUCT NO. **SP003RA**

PRESENTATION Production: E. coli  
Source: Full length amino acid sequence  
Content: 1 mL, 400 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 NGAL quantifying assays, such as ELISA.

The figure illustrates the calibration curve of a sandwich assay with ABS 039-15 as the capture antibody and ABS 039-32B as the biotinylated detection antibody.



BACKGROUND Rat NGAL, so called because it is the ortholog of human neutrophil gelatinase-associated lipocalin (NGAL), is also called lipocalin-2, 25-kDa alpha 2-microglobulin-related protein or neuron-related lipocalin. It is expressed by neutrophils and various epithelial cells, including cells tubular cells of the kidney. It is involved in physiological processes such as the binding of siderophore iron and tissue growth and regeneration. It is up-regulated in a variety of pathological situations including infection, inflammation, renal injury and certain adenocarcinomas.

REFERENCES

- Mishra J et al (2003) Identification of neutrophil gelatinase-associated lipocalin as a novel early urinary biomarker for ischemic renal injury. *J Am Soc Nephrol* 14:2534-43.
- Zhang J et al (2009) NGAL Expression in Kidney of Spontaneously Hypertensive Rats (SHR) Treated with Doxorubicin (DXR) Alone or Combined with Dexrazoxane (DRZ) (Presented at Tox Expo2009)
- Adler M et al (2010) Assessment of candidate biomarkers of drug-induced hepatobiliary injury in preclinical toxicity studies. *Toxicology Letters* 196:1-11.

**CONDITIONS**

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