

Recombinant Rat NGAL

CAT. NO. SP003RA

OVERVIEW

Product Name Recombinant Rat NGAL

Expression Host E. coli BL21 (DE3)

Type Recombinant protein

Gene ID 170496

Description 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 neutrophil-associated 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.

Tested Applications ELISA

PROPERTIES

Form Liquefied

Unit Size 1 mL

Concentration 400 pg/mL \pm 15%

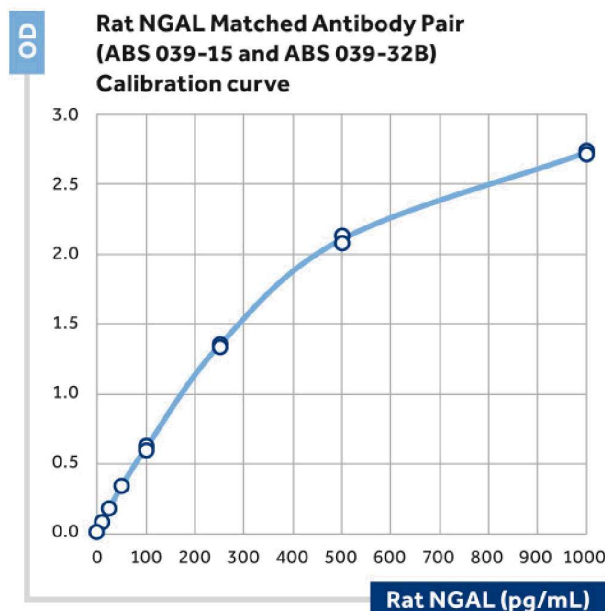
Purification IMAC (Immobilized Metal Affinity Chromatography) as a first purification step, followed by proteolytic cleavage of the affinity tag and size exclusion chromatography.

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

Rat NGAL Matched Antibody Pair (ABS 039-15 and ABS 039-32B) Calibration curve



TESTED APPLICATIONS

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

SCIENTIFIC 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 Expo 2009)
- 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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