

PRODUCT NAME **Recombinant Mouse NGAL**
Recombinant protein

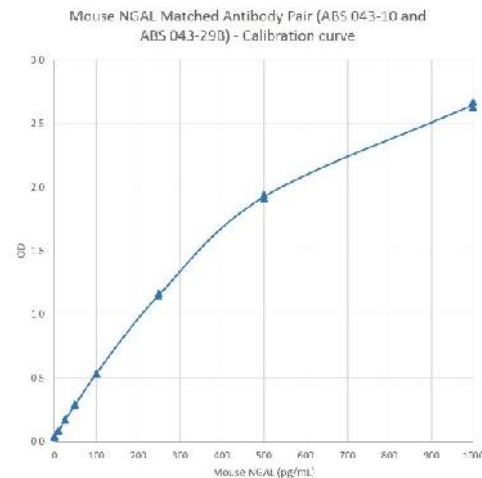
PRODUCT NO. **SP002RA**

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 NGAL quantifying assays, such as e.g. ELISA.

The figure illustrates the calibration curve of a sandwich assay with ABS 043-10 as the capture antibody and ABS 043-29B as the biotinylated detection antibody.



BACKGROUND Mouse neutrophil gelatinase-associated lipocalin (NGAL; also called lipocalin 2, 24p3, SIP24, uterocalin and siderocalin) is a member of the lipocalin family of proteins which bind and transport small lipophilic molecules. 24p3 was observed to be dramatically upregulated in kidney cell cultures infected with SV40 (1) and subsequently identified as a lipocalin (2). Unlike human NGAL, it is an acute phase protein upregulated in the liver (3), but like its mammalian homologues it is upregulated and secreted by the kidney in response to ischemic or nephrotoxic injury (4). It is also upregulated in the involuting uterus and mammary gland (5).

REFERENCES

1. Hraba-Renevey S et al (1989) SV40-induced expression of mouse gene 24p3 involves a post-transcriptional mechanism. *Oncogene* 4:601-608.
2. Flower DR, North AC, Attwood TK (1991) Mouse oncogene protein 24p3 is a member of the lipocalin protein family. *Biochem Biophys Res Commun* 180:69-74.
3. Liu Q, Nilsen-Hamilton M (1995) Identification of a new acute phase protein. *J Biol Chem* 270:22565-22570.
4. 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* 14:2534-2543
5. Ryon J et al (2002) High expression in involuting reproductive tissues of uterocalin/24p3, a lipocalin and acute phase protein. *Biochem J* 367:271-277.

CONDITIONS
Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.