

**Anti-neutrophil gelatinase-associated lipocalin (mouse, NGAL)  
Rat monoclonal antibody**

PRODUCT NO.	<b>ABS 043-29</b>	Subclass: IgG1/k Clone: 29
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details. Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide Storage: 4-8°C without exposure to light. No precautions necessary during handling.	
ANTIGEN	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).	
IMMUNOGEN	Recombinant mouse NGAL adsorbed onto aluminum hydroxide gel	
SPECIFICITY	ABS 043-29 binds NGAL in mouse serum	
EPITOPE SPECIFICITY	Not determined	
REACTIVITY	ABS 43-29 binds free mouse NGAL in solution.  ABS 043-29 forms an antibody pair for sandwich ELISA with ABS 043-10. It is recommended to use ABS 043-10 as capture antibody and biotinylated ABS 043-29 as detection antibody.	

CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum
FUSION PARTNER	SP2mIL6
IMMUNIZATION	Sprague Dawley rats immunized by intraperitoneal injection

Method	Usability	References
ELISA	Yes	
Immunoblotting	Yes	
Immunohistochemistry	Not determined	

REFERENCES	<ol style="list-style-type: none"> <li>1. Hraba-Renevey S, Türler H, Kress M, Salomon C, Weil R (1989) SV40-induced expression of mouse gene 24p3 involves a post-transcriptional mechanism. <i>Oncogene</i> 4:601-608.</li> <li>2. Flower DR, North AC, Attwood TK (1991) Mouse oncogene protein 24p3 is a member of the lipocalin protein family. <i>Biochem Biophys Res Commun</i> 180:69-74.</li> <li>3. Liu Q, Nilsen-Hamilton M (1995) Identification of a new acute phase protein. <i>J Biol Chem</i> 270:22565-22570.</li> <li>4. Mishra J, Ma Q, Prada A, Mitsnefes M, Zahedi K, Yang J, Barasch J, Devarajan P (2003) Identification of neutrophil gelatinase-associated lipocalin as a novel early urinary biomarker for ischemic renal injury. <i>J Am Soc Nephrol</i> 14:2534-2543.</li> <li>5. Ryon J, Bendickson L, Nilsen-Hamilton M (2002) High expression in involuting reproductive tissues of</li> </ol>
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