

PRODUCT SPECIFICATIONS

Name	Anti-h NGAL 4204 SPTN-5
Specificity	Antibody recognizes human neutrophil gelatinase-associated lipocalin (NGAL)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100581
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Analyte description	Neutrophil gelatinase-associated lipocalin (NGAL) is a small glycoprotein expressed in the bone marrow, epithelial tissues associated with antimicrobial defense, and in the distal tubules and collecting duct of the kidney. Elevated levels of blood and urine NGAL are associated with acute or chronic renal failure.

PARAMETERS TESTED ON EACH LOT

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.0 – 7.1
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	1.8×10^5 1/Ms
Dissociation rate constant	3.4×10^{-5} 1/s
Affinity constant	$K_A = 5.3 \times 10^9$ 1/M; $K_D = 1.8 \times 10^{-10}$ M (= 0.18 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	NGAL, Medix Biochemica (Cat 610012)

Cross-reactivities N/D

Epitope N/D

Pair recommendations

		DETECTION			
		4202	4203	4204	4205
CAPTURE	4202	-	+	+	+
	4203	+	-	+	+
	4204	+	+	-	+
	4205	+	+	+	-

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 7 days	OK
+35 °C, 21 days	Charge alterations
+45 °C, 3 days	Charge alterations

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous

Antibody recognizes native NGAL antigen, Lee Biosolutions 342-49 and recombinant NGAL antigen, Medix Biochemica 610012.

References

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