

## Product specifications

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Name	Anti-h NGAL 4205 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	100582
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
Shelf life and storage	24 months from manufacturing at 2–8 °C
Subclass	IgG <sub>1</sub>
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

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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 %

## Kinetic parameters

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Association rate constant	$5.6 \times 10^4$ 1/Ms
Dissociation rate constant	$4.9 \times 10^{-5}$ 1/s
Affinity constant	$K_A = 1.2 \times 10^9$ 1/M; $K_D = 8.6 \times 10^{-10}$ M (= 0.86 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	NGAL, Medix Biochemica (Cat 610012)

Cross-reactivities Not determined (N/D)

Epitope N/D

Pair recommendations

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

Following pairs are especially recommended for the below mentioned assays:  
IT: 4202 – 4203, 4203 – 4204 and 4203 – 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.

Platforms tested FIA, IT

Antigens tested Recombinant NGAL antigen, Medix Biochemica 610012 and native NGAL antigen Lee Biosolutions 342-49.

Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 7 days	Reduced immunoreactivity
	+35 °C, 21 days	Reduced immunoreactivity
	+45 °C, 3 days	OK
	+45 °C, 7 days	Reduced immunoreactivity

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 -

References -

