

PRODUCT SPECIFICATIONS

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 ₃ as a preservative
Shelf life and storage	24 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	5.6×10^4 1/Ms
Dissociation rate constant	4.9×10^{-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)

Legal disclaimer

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Cross-reactivities N/D

Epitope N/D

Pair recommendations	CAPTURE ANTIBODY	DETECTION ANTIBODY
	4205	4202, 4203, 4204
	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	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 Antibody recognizes NGAL antigen product no. 610012.

References -

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