

Neutrophil Gelatinase-associated Lipocalin (NGAL)

Item Number: NGAL

Introduction

Discover Neutrophil Gelatinase-Associated Lipocalin (NGAL) for Acute Kidney Injury (AKI) & chronic renal disease research. Ideal for IVD, IT & FIA assays. High quality &

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Attribute	Value
Product Name	Anti-h NGAL
Description	Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components.
Application	IT, FIA
Form/Appearance	Liquid, may turn slightly opaque during storage
Concentration	5.0 mg/ml (+/- 10 %)
Isotype	IgG1
Clonality	Monoclonal
Epitope	N/D
Purity	≥ 95 %
Affinity constant	KA= 1.6×10^9 1/Ms; KD= 6.3×10^{-10} M (0.63 nM)
Buffer	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
IEF Profile	5.8-7.0
Cross Reactivity	N/D
Specificity	Antibody recognizes human neutrophil gelatinase-associated lipocalin (NGAL)

Attribute	Value
Storage	+2-8°C
Shipping	Cold packs
Shelf Life	36 months

Attribute	Value
Packaging	Product outer packaging box and aluminum foil packaging bag should be intact and undamaged.
Test Strip Appearance	Clean, flat, without burrs, damage, or contamination; material attached firmly.
Test Strip Width	Width should not exceed the nominal value by ± 0.20 mm, nominal value is 4.00mm.
Migration Speed	Liquid migration speed should be no less than 10mm/min.
Limit of Detection	NGAL limit of detection should be no higher than 50.0 ng/mL.
Linearity Range	NGAL in the range of 50.0~5000.0 ng/mL, linear correlation coefficient $r \geq 0.9900$.
Accuracy	Relative deviation should be no greater than 20%.
Repeatability	Repeatability should be no greater than 10%.
Batch-to-Batch Precision	Batch-to-batch difference should be no greater than 15%.
Stability	When stored at 4~30°C in a sealed aluminum foil bag, and tested within 1 month of the expiration date, the test results should meet the requirements of all items listed above.