

PRODUCT SPECIFICATIONS

Name	Anti-h Calprotectin 3406 SPTN-5
Specificity	Antibody recognizes calprotectin S100A8 subunit
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100470
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	Calprotectin belongs to the family of S100 proteins and is composed of two subunits S100A8 and S100A9. Increased plasma concentrations are found in response to infections and inflammation. Faecal calprotectin measurement is used for detection of gastrointestinal inflammation or neoplasia and for assessment of inflammatory bowel disease activity and response to treatment.

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	5.8 - 7.0
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	7.6×10^5 1/Ms
Dissociation rate constant	1.1×10^{-4} 1/s
Affinity constant	$K_A = 6.9 \times 10^9$ 1/M; $K_D = 1.4 \times 10^{-10}$ M (=0.14 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	Recombinant human calprotectin, Certest Biotec (Cat MT25HCP)

Legal disclaimer

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Cross-reactivities Not determined (N/D)

Epitope N/D

Pair recommendations	CAPTURE ANTIBODY	DETECTION ANTIBODY
	3406	3403, 3407
	3403, 3407	3406

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, 21 days	OK, but some charge alterations
	+45 °C, 7 days	OK, but some 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 -

References -

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