

PRODUCT SPECIFICATIONS

Name	Anti-h IL-8 1501 SPTN-5
Specificity	Antibody recognizes human interleukin-8
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100218
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	Interleukin-8 (IL-8) is a chemokine produced by macrophages and other cell types such as epithelial cells. Primary function of IL-8 is the induction of chemotaxis in its target cells (e.g. neutrophil granulocytes). It serves as a chemical signal that attracts neutrophils at the site of inflammation. IL-8 is a promising marker for many clinical conditions and currently being applied by various subspecialties of medicine either for the purpose of rapid diagnosis or as a predictor of prognosis. IL-8 level increases as a result of many inflammatory conditions, so careful interpretation of IL-8 level is required to make correlation with desired clinical condition's diagnosis or prognosis.

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	6.3 - 7.3
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	3×10^5 1/Ms
Dissociation rate constant	2×10^{-3} 1/s
Affinity constant	$K_A = 2 \times 10^8$ 1/M ; $K_D = 5 \times 10^{-9}$ M
Determination method	SPR analysis (Biacore)
Determination antigen	IL-8, Santa Cruz (Cat sc-4601, Lot J 1404)

Legal disclaimer

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Cross-reactivities Not Determined (N/D)

Epitope N/D

Pair recommendations	CAPTURE ANTIBODY	DETECTION ANTIBODY
	-	-

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
	+25 °C, 21 days	OK
	+35 °C, 21 days	OK
	+45 °C, 7 days	OK

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 -