

PRODUCT SPECIFICATIONS

Date: 2011-08-12

PRODUCT NAME	:	Anti-h IL-8 1501 SPTN-5
PRODUCT SPECIFICITY	:	Antibody recognizes human Interleukin-8
PRODUCT CODE	:	100218
PRODUCT BUFFER	:	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.1 % NaN ₃ as a preservative
SHELF LIFE AND STORAGE	:	18 months 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 FROM EACH LOT

PRODUCT APPEARANCE	:	Clear liquid, may turn opaque during storage
PRODUCT CONCENTRATION	:	5.0 mg/ml (+/- 10 %)
PRODUCT ACTIVITY	:	80 – 120 % compared to reference in an IFMA-test
IEF-RANGE	:	6.4 – 7.1
PURITY	:	≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	:	IgG ₁
ASSOCIATION CONSTANT	:	3×10^5 1/Ms
DISSOCIATION 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)
ANTIGEN	:	Santa Cruz: Cat.no: sc-4601, Lot: J 1404
CROSS-REACTIVITIES	:	Not tested

EPITOPE : N/D

EPITOPE GROUP : -

Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.

PAIR RECOMMENDATIONS : **SOLID** **LABEL**
N/D

Please note that pair recommendations are based on results obtained in our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations should be taken only as a directive.

PRODUCT STABILITY : **TEMPERATURE, DAYS** **RESULT**

Please note that the shelf life given on page one is based on real time stability testing at +2-8 °C in the product buffer.

-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. The maximum duration of the test is 21 days, except for the +45 °C only 7 days.

pH, 14 DAYS, +4 °C **RESULT**

5.0	OK
6.0	OK
7.0	OK
8.0	OK

Stability testing is performed to see whether pH affects the antigen binding, charge or composition of the antibody during 14 days at +4 °C.

MISCELLANEOUS : -

REFERENCES : -

Legal disclaimer

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