

PRODUCT SPECIFICATIONS

Date: 2011-08-12

PRODUCT NAME	:	Anti-h MPO 1703 SPTNZ-5
PRODUCT SPECIFICITY	:	Human Myeloperoxidase
PRODUCT CODE	:	100268
PRODUCT BUFFER	:	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.05 % Sulfobetaine, 0.1 % NaN ₃ as a preservative
SHELF LIFE AND STORAGE	:	12 months at 2-8 °C
ANALYTE DESCRIPTION	:	Myeloperoxidase (MPO) is a peroxidase enzyme (EC 1.11.1.7) most abundantly present in neutrophil granulocytes. The 150-kDa MPO is a dimer consisting of two 15-kDa light chains and two variable-weight glycosylated heavy chains bound to a prosthetic heme group. Myeloperoxidase (MPO) is an enzymatic mediator of several inflammatory cascades and higher serum levels have been associated with increased risk of adverse cardiovascular events. As a result, MPO and its downstream inflammatory pathways represent attractive targets for both prognostic and therapeutic intervention in the prophylaxis of atherosclerotic cardiovascular disease.

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	:	5.7 – 6.2
PURITY	:	≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	:	IgG ₁
ASSOCIATION CONSTANT	:	9×10^5 1/Ms
DISSOCIATION CONSTANT	:	2×10^{-4} 1/s
AFFINITY CONSTANT	:	$K_D = 2 \times 10^{-10}$ M; $K_A = 5 \times 10^9$ 1/M
DETERMINATION METHOD	:	SPR analysis (ProteOn XPR36)
ANTIGEN	:	Myeloperoxidase (Lee Biosolutions, cat.no.426-10, lot.no. L44340)
CROSS-REACTIVITIES	:	N/D

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
1703	1701, 1702

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
-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

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.

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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