

## PRODUCT SPECIFICATIONS

Date: 2011-08-12

<b>PRODUCT NAME</b>	: Anti-human MPO 1701 SPTN-5
<b>PRODUCT SPECIFICITY</b>	: Human Myeloperoxidase
<b>PRODUCT CODE</b>	: 100266
<b>PRODUCT BUFFER</b>	: 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.1 % NaN <sub>3</sub> as a preservative
<b>SHELF LIFE AND STORAGE</b>	: 12 months at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	: 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

<b>PRODUCT APPEARANCE</b>	: Clear liquid, may turn opaque during storage
<b>PRODUCT CONCENTRATION</b>	: 5.0 mg/ml (+/- 10 %)
<b>PRODUCT ACTIVITY</b>	: 80 – 120 % compared to reference in an IFMA-test
<b>IEF-RANGE</b>	: 5.5 – 6.5
<b>PURITY</b>	: ≥ 95 %

### PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

<b>CLASS AND SUBCLASS</b>	: IgG <sub>1</sub>
<b>ASSOCIATION CONSTANT</b>	: $1 \times 10^6$ 1/Ms
<b>DISSOCIATION CONSTANT</b>	: $1 \times 10^{-3}$ 1/s
<b>AFFINITY CONSTANT</b>	: $K_D = 1 \times 10^{-9}$ M; $K_A = 1 \times 10^9$ 1/M
<b>DETERMINATION METHOD</b>	: SPR analysis (ProteOn XPR36)
<b>ANTIGEN</b>	: Myeloperoxidase (Lee Biosolutions, cat.no.426-10, lot.no. L44340)
<b>CROSS-REACTIVITIES</b>	: 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.

<b>PAIR RECOMMENDATIONS</b>	<b>SOLID</b>	<b>LABEL</b>
	1701	1702, 1703

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.

<b>PRODUCT STABILITY</b>	<b>TEMPERATURE, DAYS</b>	<b>RESULT</b>
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	Not recommended, may precipitate
	-20 °C, 21 days	Not recommended, may precipitate
	+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.

<b>pH, 14 DAYS, +4 °C</b>	<b>RESULT</b>
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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