Medix Biochemica

Product specification
ANTIBODY
2023-01-20

Anti-h MPO 1702 SPTN-5

Product overview

Catalog number	100267
Specificity	Antibody recognizes human myeloperoxidase
Description	Monoclonal mouse antibody, cultured *in vitro* under conditions free from animal-derived components.
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
Subclass	IgG_1
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 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	6.7–7.5
Purity	≥ 95 %

Kinetic parameters

Association rate constant	8×10^5 1/Ms
Dissociation rate constant	2×10^{-3} 1/s
Affinity constant	KD = 2×10^{-9} M; KA = 5×10^8 1/M
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	Myeloperoxidase, Lee Biosolutions (Cat 426-10, Lot L44340)

Oy Medix Biochemica Ab
Klovinpellontie 3,
FI-02180 Espoo, Finland

medix@medixbiochemica.com
www.medixbiochemica.com
VAT reg. no. FI14631532

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Cross-reactivities

Not Determined (N/D)

Epitope

N/D

Pair recommendations

		DETECTION		
		1701	1702	1703
CAPTURE	1701	-	+	+
	1702	-	-	+
	1703	+	+	-

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.

Platforms tested

FIA

Antigens tested

Native MPO antigen Lee Biosolutions 426-10.

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

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References

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