Medix Biochemica

Product specification
ANTIBODY
2023-12-07

Anti-h S100B 11404 SPTN-5

Product overview

Catalog number	100781
Specificity	Antibody recognizes human S100B
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	Unspecified, storage at 2–8 °C
Subclass	IgG_1
Analyte description	S100B belongs to the family of dimeric calcium-binding S100 proteins. S100B is a biomarker for traumatic brain injury. S100B can also be used as a prognostic tool in melanoma patient care.

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	6.8–7.2
Purity	≥ 95 %

Kinetic parameters

Association rate constant	3.8×10^5 1/Ms
Dissociation rate constant	2.6×10^{-5} 1/s
Affinity constant	$K_A = 1.5 \times 10^{10}$ 1/M; $K_D = 6.8 \times 10^{-11}$ M (= 0.068 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Recombinant S100B, Medix Biochemica (Cat 710014)

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

Does not recognize S100A8 or S100A9

Epitope

N/D

Pair recommendations

		DETECTION		
		11401	11402	11404
CAPTURE	11401	-	+	-
	11402	+	-	+
	11404	-	+	-

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

Recombinant S100B antigen, Medix Biochemica 710014, 710044 and 710045.

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °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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