Medix Biochemica

Product specification
ANTIBODY
2024-05-15

Anti-h GFAP R13502 SPTN-5

Product overview

Catalog number	140047
Specificity	Antibody recognizes human GFAP
Description	Recombinant 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	Glial fibrillary acidic protein (GFAP) is an intermediate filament-III protein uniquely expressed in astrocytes within the central nervous system. Cerebrospinal fluid and serum GFAP levels elevate due to damages in nervous system making GFAP a promising biomarker for neuroinflammation in neurodegenerative diseases and injuries.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/-10 %) (A280 nm, 1 mg/ml, 1 cm = 1.7)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	7.4–8.4
Purity	≥ 95 %

Kinetic parameters

Association rate constant	1.4 x 10^5 1/Ms
Dissociation rate constant	Does not dissociate under conditions used.
Affinity constant	Not applicable (N/A)
Determination method	BLI (Octet RED96e)
Determination antigen	Human recombinant GFAP, Hytest (Cat 8G45)

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Cross-reactivities

Does not recognize vimentin, desmin or peripherin

Epitope

Between amino acids 60-383 of human GFAP

Pair recommendations

		DETECTION			
		R13501	R13502	R13503	R13504
CAPTURE	R13501	-	+	+	+
	R13502	+	-	+	+
	R13503	-	-	-	-
	R13504	-	-	-	-

Following pairs are especially recommended for the below mentioned assays:
FIA: R13501 (capture) – R13503 (detection), R13501 – R13504, R13502 – R13503 and R13502 – R13504

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

N/D

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	N/D
-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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