

Anti-h GFAP R13504 SPTN-5

Product overview

Catalog number	140049
Specificity	Antibody recognizes human GFAP
Description	Recombinant mouse antibody, cultured <i>in vitro</i> 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	7.3–7.8
Purity	≥ 95 %

Kinetic parameters

Association rate constant	1.6 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)



Legal disclaimer

Cross-reactivities Does not recognize desmin or peripherin. Possibility to a minor cross-reaction to vimentin.

Epitope Between amino acids 60-383 of human GFAP

Pair recommendations

		DETECTION				
		R13501	R13502	R13503	R13504	R13505
CAPTURE	R13501	-	+	+	+	+
	R13502	+	-	+	+	+
	R13503	-	-	-	-	-
	R13504	-	-	-	-	-
	R13505	+	+	+	+	-

Following pairs are especially recommended for the below mentioned assays:
FIA: R13501 (capture) – R13505 (detection), and R13505 – 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	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 -

References -



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