

## Anti-h GFAP R13501 SPTN-5

### Product overview

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<b>Catalog number</b>	140046
<b>Specificity</b>	Antibody recognizes human GFAP
<b>Description</b>	Recombinant mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	Unspecified, storage at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	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

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<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/-10 %) (A280 nm, 1 mg/ml, 1 cm = 1.7)
<b>Immunoreactivity</b>	80–120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	7.1–7.5
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	2.0 x 10 <sup>5</sup> 1/Ms
<b>Dissociation rate constant</b>	Does not dissociate under conditions used.
<b>Affinity constant</b>	Not applicable (N/A)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	Human recombinant GFAP, Hytest (Cat 8G45)



#### Legal disclaimer

**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	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 21 days	OK
	+45 °C, 3 days	OK
	+45 °C, 7 days	Decreasing immunoreactivity

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** -



**Legal disclaimer**