

## Anti-h p-Tau217 R13323 SPTN-5

### Product overview

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<b>Catalog number</b>	140050
<b>Specificity</b>	Antibody recognizes human Tau phosphorylated at Thr217
<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>	Tau is an intracellular protein localized in the axons of neurons, where it maintains the stability of microtubules. Tau bears several potential phosphorylation sites, and Tau phosphorylated at threonine 217 has been linked to neurodegenerative diseases such as Alzheimer's disease.

### Parameters tested on each lot

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<b>Product appearance</b>	Light-yellow liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/-10 %) (A280 nm, 1 mg/ml, 1 cm = 1.6)
<b>Immunoreactivity</b>	80–120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	7.2–8.2
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	$5.2 \times 10^5$ 1/Ms
<b>Dissociation rate constant</b>	$2.7 \times 10^{-4}$ 1/s
<b>Affinity constant</b>	$K_A = 1.9 \times 10^9$ 1/M; $K_D = 6.3 \times 10^{-10}$ M (= 0.63 nM)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	TPSLP{pTHR}PPTRE, Genscript



#### Legal disclaimer

**Cross-reactivities**

No cross-reactivity to linear peptides:  
 - PPAPK{pTHR}PPSSG (p-Tau181)  
 - KKVAVVR{pTHR}PPKSP (p-Tau231)

**Epitope**

Epitope region (where phosphorylation is necessary):  
 TPSLP{pTHR}PPTRE

**Pair recommendations**

	DETECTION		
	R13301	R13302	R13303
CAPTURE R13323 (p-Tau217)	+	+	+

Following pair is especially recommended for FIA assay:  
 R13323 (capture) – R13302 (detection)

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	Charge alterations.
+45 °C, 7 days	Charge alterations.

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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**Legal disclaimer**