

Anti-h p-Tau217 R13323 SPTN-5

Product overview

Catalog number	140050
Specificity	Antibody recognizes human Tau phosphorylated at Thr217
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	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

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

Kinetic parameters

Association rate constant	5.2×10^5 1/Ms
Dissociation rate constant	2.7×10^{-4} 1/s
Affinity constant	$K_A = 1.9 \times 10^9$ 1/M; $K_D = 6.3 \times 10^{-10}$ M (= 0.63 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	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):
 TPSTLP{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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