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Anti-h p-Tau231 R13322 SPTN-5

Product overview		
Catalog number	140036	
Specificity	Antibody recognizes human Tau phosphorylated at Thr231	
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 231 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 = 1.5)	
Immunoreactivity	80–120 % compared to the reference sample in an FIA test	
IEF Profile	6.5–7.1	
Purity	≥ 95 %	
Kinetic parameters		
Association rate constant	2.9 x 10 ⁶ 1/Ms	
Dissociation rate constant	7.7 x 10 ⁻⁴ 1/s	
Affinity constant	K _A = 3.8 x 10 ⁹ 1/M; K _D = 3.9 x 10 ⁻¹⁰ M (= 0.39 nM)	
Determination method	BLI analysis (Octet RED96e)	
Determination antigen	KKVAVVR{pTHR}PPKSP, Genscript	



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Cross-reactivities	No cross reactivity to linear peptides: - PPAPK{pTHR}PPSSG (p-Tau181) - TPSLP{pTHR}PPTRE (p-Tau217)		
Epitope	Epitope region (where phosphorylation is necessary): KKVAVVR{pTHR}PPKSP		
Pair recommendations	R13322 can be paired with tot-Tau detectors R13301, R13302 and R13303.		
Platforms tested	N/A		
Antigens tested	N/D		
Product stability	temperatures affect the antigen bind	life given on the first page is based on	
Miscellaneous	Comparable to mAb clone PHF-6		
References	-		



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