

CoraLite® Plus 488-conjugated Phospho-TAU (Ser202/Thr205) Recombinant monoclonal antibody

Catalog Number: **CL488-82568**

Basic Information

Catalog Number: CL488-82568	GenBank Accession Number: BC000558	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4137	CloneNo.: 4A6
Isotype: IgG	UNIPROT ID: P10636	Recommended Dilutions: IF-P: 1:50-1:500
	Full Name: microtubule-associated protein tau	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 37-46, 79-81 kDa	
	Observed MW: 45-55 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF-P: λ phosphatase treated mouse brain tissue,
Species Specificity: human, mouse	

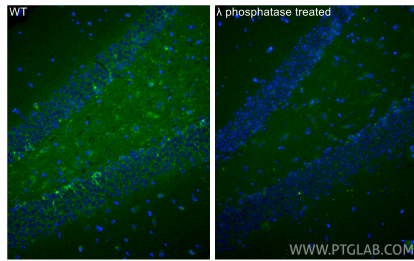
Background Information

Tau (tubulin-associated unit) is a microtubule-associated protein (also known as MAPT), expressed mainly in neurons of the central nervous system. Its primary function is to modulate microtubule dynamics for maintaining axonal cytoskeleton. The Tau protein has six isoforms produced from a single gene through alternative RNA splicing. Isoforms differ in number of inserts at the N-terminal half and the number of repeats at the C-terminal half (3 repeat-3R; 4 repeat-4R). Tau is hyperphosphorylated during aging and in age-related neurodegenerative diseases such as Alzheimer's disease (AD) and fronto-temporal dementia. Hyperphosphorylation of Tau leads to the formation of neurofibrillary tangles (NFT) in the neurons and glia cells, which is one of the hallmarks of AD.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded λ phosphatase treated mouse brain tissue using Coralite® Plus 488 Phospho-TAU (Ser202/Thr205) antibody (CL488-82568, Clone: 4A6) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).