



Magic™ Mouse Anti-Nitrated Tau (Tyr18) Monoclonal antibody, clone Tau-Ny18 (CABT-ZS1019)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody is specific for Tau nitrated at Tyr18. It does not cross react with wild type tau, or tau nitrated at Tyr 29, Tyr 197, or Tyr 394.
Target	Tau
Isotype	IgG2b, κ
Source/Host	Mouse
Species Reactivity	Human
Clone	Tau-Ny18
Purification	affinity chromatography
Conjugate	unconjugated
Applications	IHC, WB, ELISA
Format	Liquid
Size	25 µl
Buffer	Phosphate-buffered solution; no preservatives or carrier proteins.
Preservative	None
Storage	The antibody solution should be stored undiluted between 2°C and 8°C. Please note the storage condition for this antibody has been changed from -20°C to between 2°C and 8°C.

BACKGROUND

Introduction

Tau proteins are microtubule-associated protein (MAPs) which are abundant in neurons of the central nervous system, but are also expressed at very low levels in CNS astrocytes and oligodendrocytes and elsewhere. One of tau's main functions is to modulate the stability of axonal microtubules. Tau is active primarily in the distal portions of axons providing microtubule stabilization as well as flexibility. Pathologies and dementias of the nervous system such as Alzheimer's disease feature tau proteins that have become defective and no longer stabilize microtubules properly. As a result, tau forms aggregates with specific structural properties referred to as Paired Helical Filaments (PHFs) that are a characteristic of many different types of dementias, known as tauopathies.

Keywords

Tau; MAPT; MAPTL; MGC1; Microtubule-associated protein tau