Description:
Monoclonal antibody against tau phosphorylated at Ser 396

Also Known As:
microtubule-associated protein tau; PHF-tau; paired helical filament-tau; neurofibrillary tangle protein; microtubule-associated protein tau, isoform 4; G protein beta1/gamma2 subunit-interacting factor 1

Intended Use:
**Research Use Only (RUO)**
This product is sold for laboratory research use only, not for human or in-vivo use.

Form:
Ascites

Clone:
PHF-13

Host:
Mouse

IsoType:
IgG2b

Species Reactivity:
Human

Specificity:
Paired helical filaments are the major building blocks of neurofibrillary lesions in Alzheimer's disease brains. Paired helical filaments are composed of hyperphosphorylated central nervous system tau protein. Predominantly expressed in axons, tau is a group of microtubule associated proteins that normally promote and stabilize the assembly of microtubules. Paired helical filament-tau differs from normal tau by its abnormal hyperphosphorylation, which results in decreased binding of tau to microtubules. The decreased affinity of paired helical filament-tau for microtubules coupled with the reduced amount of normal tau may lead to the destabilization of microtubules and result in impairment of axonal transport, neuronal degeneration and the aggregation of paired helical filaments. The hyperphosphorylation of tau is thus believed to be a key event in the pathogenesis of Alzheimer's disease.

The PHF-13 antibody reacts with human tau protein phosphorylated at ser 396 and was raised using paired helical filament tau preparations from human brain.

Uses:
This antibody is effective in immunoblotting.

Suggested Working Dilution:
The optimal working dilution should be determined for each specific assay condition.
• Western blot: 1:1,000

Storage:
Store at -20°C. Upon initial thawing, apportion into working aliquots and store at -20°C. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody. For long-term storage, keep the antibody at -80°C.
References:


Warranty/Conditions:
Covance products may not be resold or modified for resale without prior written approval. All sales are subject to Covance Antibody Products Terms and Conditions of Sale.

Datasheet Revision Date:
11/6/2011