

ProteoStat[®] Amyloid Plaque Detection Kit

for fluorescence microscopy



Amyloid protein fibrils are characteristic of a variety of neurodegenerative diseases, including Alzheimer's, Huntington's and Parkinson's diseases, as well as various transmissible spongiform encephalopathies. It is difficult to predict the presence of amyloid deposits solely on the basis of a patient's clinical symptoms, and thus histopathological analysis is often required post-mortem to confirm a diagnosis.

Enzo Life Sciences' ProteoStat[®] Amyloid Plaque Detection Kit contains a novel 488 nm excitable red fluorescent molecular rotor dye to specifically detect amyloid plaques in cells and tissues. The detection reagent interacts with the cross- β -

sheet quaternary structure of amyloid fibrils and is readily excited by an argon ion laser source, with emission maximum of 600 nm. Relative to Thioflavin T, this novel detection reagent demonstrates significantly higher fluorescence emission intensity enhancement in the presence of amyloid protein fibrils and low non-specific background. It is also suitable for highlighting neurofibrillary plaques, composed of β -amyloid and tau proteins, in brain tissue thin sections from animal models or from post-mortem tissue sections of patients with Alzheimer's disease. The ProteoStat[®] Amyloid Plaque Detection Kit should facilitate the discovery of pharmaceuticals or therapies which prevent or slow Alzheimer's disease progression.

Detect Amyloid Plaques in Frozen and Paraffin-embedded Tissue

ENZ-51038-K040

40 samples

- Sensitive and specific detection of amyloid fibrils and neurofibrillary plaques containing β -amyloid and tau proteins.
- Suitable for co-localization studies with fluorescently-labeled antibody conjugates.
- Optimized for both frozen and formalin-fixed, paraffin-embedded (FFPE) tissues.

Co-Localization Shows Comparable Results in a Time-Saving Assay with ProteoStat[®] Amyloid Detection Dye

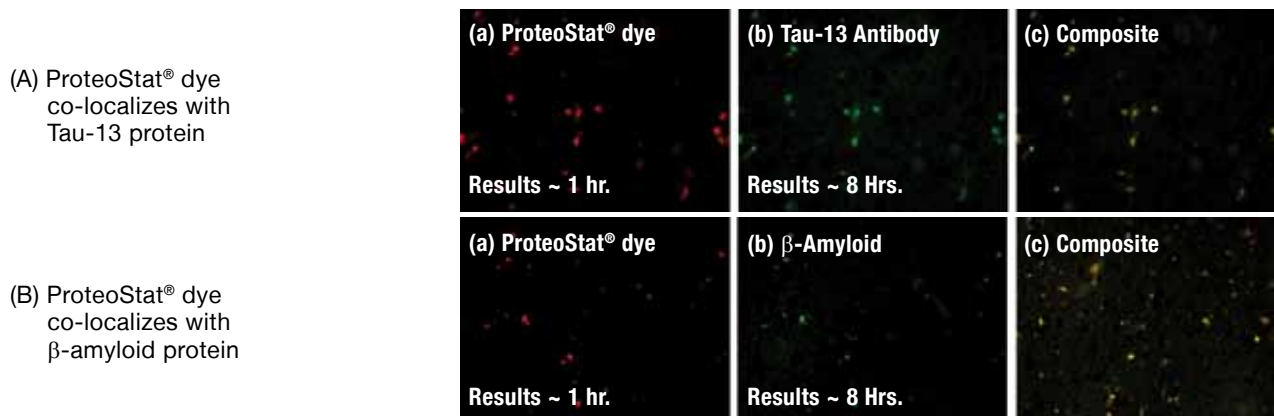


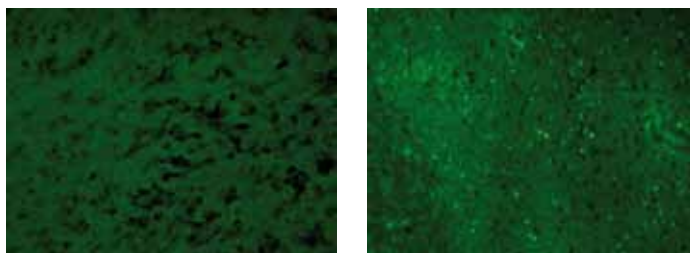
FIGURE 1: Co-localization studies of amyloid plaques within paraffin-embedded tissue sections of human brain tissue (cerebellum) from Alzheimer's patients with fluorescein-labeled antibodies, as observed by fluorescence microscopy.

PANEL A: ProteoStat[®] dye co-localizes with tau protein: (a) ProteoStat[®] Amyloid Detection dye-stained tissue; (b) Tau-reactive antibody (clone Tau-13) which recognizes human tau and specifically stains brain tissue early in Alzheimer's disease; (c) composite image.

PANEL B: ProteoStat[®] dye co-localizes with β -amyloid: (a) ProteoStat[®] Amyloid Detection dye-stained tissue; (b) β -Amyloid-reactive antibody (clone 6E10) which specifically binds β -amyloid aggregates; (c) composite image.

ProteoStat® Dye Provides Higher Signal-to-Noise than Thioflavin T in the Presence of Amyloid Protein Fibrils

A. Thioflavin T



B. ProteoStat® dye

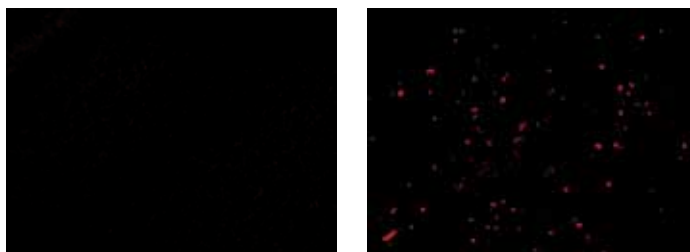


FIGURE 2: Detection of amyloid plaques within paraffin-embedded tissue sections of human brain tissue (cerebellum) from patients with Alzheimer's disease and human adult normal brain tissue (cerebellum) with (A): Thioflavin T dye (B) ProteoStat® dye, as observed by fluorescence microscopy.

Ordering Information

Product	Prod. No.	Size
ProteoStat® Amyloid Plaque detection kit	ENZ-51038-K040	40 samples

Related Products

Product	Prod. No.	Size
ProteoStat® Aggresome detection kit	ENZ-51035-K100	100 Assays
Cyto-ID™ Autophagy detection kit	ENZ-51031-K200	200 Assays

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