CREATIVE BIOMART®
Assay Kit

Methionine Sulfoxide Immunoblotting Kit

Product Information

Cat.No. Kit-1975

Size

10 blots

Description

Protein methionine sulfoxide (MetO) is a reversible oxidative modification that occurs by exposure of protein(s) methionine residues to reactive oxygen species (ROS). Methionine oxidation can alter the function(s) of the modified proteins and if not reversed by MetO reductases can be further oxidized to methionine sulfone, an irreversible modification. Methionine oxidation may occur as a by-product of phagocytotic oxidative bursts, normal mitochondrial respiration and may also occur from environmental chemical exposures. The overabundance of methionine sulfoxidation is implicated in age-related diseases. Cellular protein MetO levels may be influenced by the decrease or loss of methionine sulfoxide reductase (MSR) activity or by an overabundance of ROS leading to increased levels of dysfunctional proteins. The Methionine Sulfoxide Polyclonal Antibody provided in this assay kit detected IgG-containing MetO from sera of Alzheimer''s patients but not from normal control sera. The MetO Immunoblotting Kit contains reagents needed for the immunochemical detection of proteins containing MetO residues by western blotting. MetO-containing samples of interest include those from cell or tissue lysates as well as semi-pure or purified proteins. Samples may be prepared with reducing or non-reducing sample buffer prior to SDS-PAGE and tested along side one SDS-PAGE well designated for the provided positive control. The MetO Polyclonal Antibody was isolated from rabbit serum generated after immunization with a oxidized corn protein (MetO-DZS18) rich in methionine. This polyclonal antibody is specific for protein methionine sulfoxide.

Storage

-20°C

Kit Components

Methionine Sulfoxide Polyclonal Antibody: 1 vial; -20°C Methionine Sulfoxide Protein Positive Control: 1 vial; -20°C Methionine Sulfoxide IgG-Blocking Reagent: 1 vial; 4°C

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