Product datasheet

Anti-Acrolein antibody [5F6] ab48501

Overview

Product name Anti-Acrolein antibody [5F6]
Description Mouse monoclonal [5F6] to Acrolein
Host species Mouse
Specificity This antibody is specific for Acrolein modified protein (especially FDP-lysine type derivative).
Tested applications Suitable for: IHC-P
Immunogen Acrolein modified keyhole-lympet hemocyanine
Positive control Aortic wall in the renal tissue of diabetic nephropathy or aortic wall of atherosclerosis.

Properties

Form Liquid
Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer Preservative: 0.1% Sodium azide
Constituents: 0.0268% PBS, 0.5% BSA
Purity Ascites
Purification notes Purified from ascites.
Clonality Monoclonal
Clone number 5F6
Isotype IgG1
Light chain type kappa

Applications

Our Abpromise guarantee covers the use of ab48501 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Acrolein, a reactive alpha,beta-unsaturated aldehyde, is a common environmental pollutant, a metabolite of the anticancer drug cyclophosphamide, and a byproduct of lipid peroxidation. An increase in acrolein production has been proposed as a marker for Alzheimer's disease, diabetic glomerular lesions, and atherosclerosis. Acrolein is a potent inhibitor of cell proliferation at nonlethal doses and may act through effects on redox-regulated transcription factors. It has been reported that NF-kappaB activation is inhibited by acrolein.

Immunohistochemical analysis of Acrolein modified proteins expression in formalin fixed paraffin embedded atherosclerotic aorta using ab48501 at 0.5 µg/ml.

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