

Product datasheet

Anti-4-Hydroxy-2-hexenal antibody [6F10] ab243068

2 Images

Overview

Product name	Anti-4-Hydroxy-2-hexenal antibody [6F10]
Description	Mouse monoclonal [6F10] to 4-Hydroxy-2-hexenal
Host species	Mouse
Tested applications	Suitable for: WB, Flow Cyt
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule corresponding to 4-Hydroxy-2-hexenal conjugated to keyhole limpet haemocyanin.
Positive control	WB: 4-hydroxyl nonenal-BSA, and 4-hydroxy-2-hexenal-BSA. Flow cyt: SH-SY5Y cells (treated with hydrogen peroxide).
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.</p>

Properties

Form	Liquid
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Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Protein G purified
Purification notes	Purified from TCS.
Clonality	Monoclonal
Clone number	6F10
Isotype	IgG2b

Applications

Our [Abpromise guarantee](#) covers the use of **ab243068** in the following tested applications.

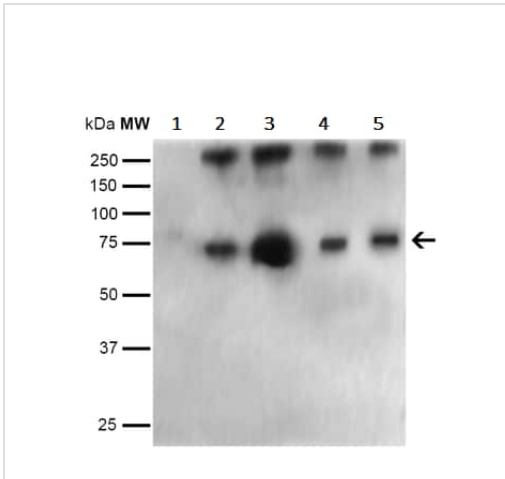
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000.
Flow Cyt		1/50.

Target

Relevance 4-Hydroxy-2-alkenals are major lipid peroxidation products, and show many biological effects such as high toxicity to cells. 4-Hydroxy-2-hexenal (HHE) is an aldehyde formed during peroxidation of n-3 fatty acids such as docosahexaenoic acid. HHE is a highly reactive aldehyde and reacts with the histidine residues of proteins to form Michael-addition type adducts.

Images



Western blot - Anti-4-Hydroxy-2-hexenal antibody [6F10] (ab243068)

All lanes : Anti-4-Hydroxy-2-hexenal antibody [6F10] (ab243068) at 1/1000 dilution

Lane 1 : BSA at 0.5 µg

Lane 2 : 4-hydroxyl nonenal-BSA at 0.5 µg

Lane 3 : 4-hydroxy nonenal-BSA at 2 µg

Lane 4 : 4-hydroxy-2-hexenal BSA at 0.5 µg

Lane 5 : 4-hydroxy-2-hexenal BSA at 2 µg

Secondary

All lanes : Goat Anti-Mouse IgG: HRP at 1/2000 dilution

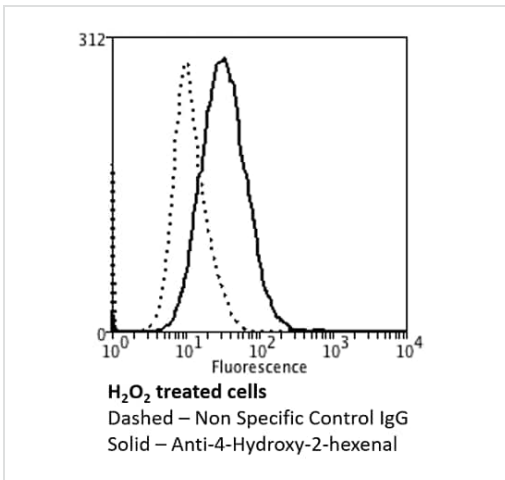
Developed using the ECL technique.

Exposure time: 5 minutes

Primary incubation for 2 hours at room temperature.

Secondary incubation for 1 hour at room temperature.

Block: 5% Skimmed milk in TBST.



Flow Cytometry - Anti-4-Hydroxy-2-hexenal antibody [6F10] (ab243068)

Flow cytometric analysis of 90% methanol-fixed SH-SY5Y (human neuroblastoma cell line from bone marrow) cells (+ 250 µM hydrogen peroxide treatment for 24 hours) labeling 4-hydroxy-2-hexenal with ab243068 at 1/100 dilution for 30 minutes on ice (solid line) compared with an Isotype control IgG (dashed line). A Goat Anti-Mouse: PE at 1/100 dilution was used as the secondary antibody.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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