

Product datasheet

Anti-HEL antibody [5E8] ab243073

3 Images

Overview

Product name	Anti-HEL antibody [5E8]
Description	Mouse monoclonal [5E8] to HEL
Host species	Mouse
Tested applications	Suitable for: WB, Flow Cyt
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule corresponding to HEL conjugated to keyhole limpet haemocyanin. Synthetic Hexanoyl modified Keyhole Limpet hemocyanin.
Positive control	WB: HeLa (+/- hydrogen peroxide treatment) cell lysate; Hexanoyl Lysine-BSA. Flow cyt: SH-SY5Y cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Purification notes	Purified from TCS.
Clonality	Monoclonal
Clone number	5E8
Isotype	IgG1

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of **ab243073** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

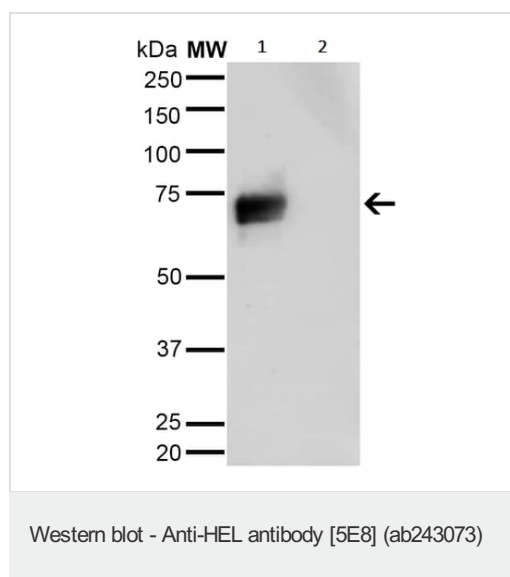
Application	Abreviews	Notes
WB		1/1000.
Flow Cyt		1/50.

Target

Relevance

Oxidative damage of lipids caused by reactive oxygen species (ROS) play an important role in some diseases, lesion of cell functions and aging. Aldehydes such as malondi-aldehyde (MDA) and 4-hydroxy-2-nonenal (4-HNE) have been reported as one of the advanced lipid peroxidation products. But recently in the earlier stage of lipid peroxidation, 13-hydroperoxyoctadecanoic acid (13-HPODE) is found to be covalently bound to proteins¹). Hexanoyl-Lysine adduct (HEL) is a novel lipid hydroperoxide-modified lysine residues. HEL is formed by oxidative modification by oxidized omega 6 fatty acids such as linoleic acid or arachidonic acid.

Images



All lanes : Anti-HEL antibody [5E8] (ab243073) at 1/1000 dilution

Lane 1 : Hexanoyl Lysine-BSA

Lane 2 : BSA

Lysates/proteins at 0.5 µg per lane.

Secondary

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

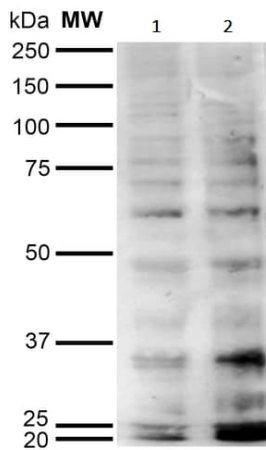
Developed using the ECL technique.

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.



Western blot - Anti-HEL antibody [5E8] (ab243073)

All lanes : Anti-HEL antibody [5E8] (ab243073) at 1/1000 dilution

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Lane 2 : HeLa (treated with hydrogen peroxide) cell lysate

Lysates/proteins at 12 µg per lane.

Secondary

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

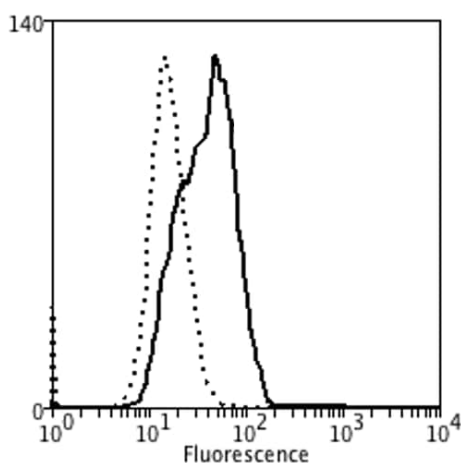
Developed using the ECL technique.

Exposure time: 5 minutes

Primary incubation for 2 hrs at RT.

Secondary incubation for 1 hr at RT.

Block: 5% Skimmed milk in TBST.



Flow Cytometry - Anti-HEL antibody [5E8] (ab243073)

Flow cytometric analysis of 90% methanol-fixed SH-SY5Y (human neuroblastoma cell line from bone marrow) cells labeling HEL with ab243073 at 1/50 dilution for 30 mins 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 (20 mins at RT).

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors