

4-Hydroxynonenal Rabbit mAb

Catalog No.: A26085 **Recombinant**

Basic Information

Observed MW

23-310kDa

Calculated MW

Category

Primary antibody

Applications

WB,IF/ICC,FC (intra)

Cross-Reactivity

Species independent

CloneNo number

ARC70314

Background

4-hydroxy-2-nonenal (4-hydroxynonenal, 4-HNE) is a highly reactive aldehyde generated by the exposure of polyunsaturated fatty acids to peroxides and reactive oxygen species (ROS). It non-enzymatically forms stable protein adducts with histidine, lysine, and cysteine side chains that have been used as biomarkers for oxidative damage in cells. Conditions where 4-HNE immunoreactivity has been observed include inflammation, neurodegenerative diseases, and ischemic damage to the heart and brain.

Recommended Dilutions

WB	1:10000 - 1:50000
IF/ICC	1:200 - 1:500
FC (intra)	1:100 - 1:500

Immunogen Information

Gene ID

Swiss Prot

Immunogen

Chemical compounds corresponding to 4-Hydroxynonenal.

Synonyms

4-HNE

Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

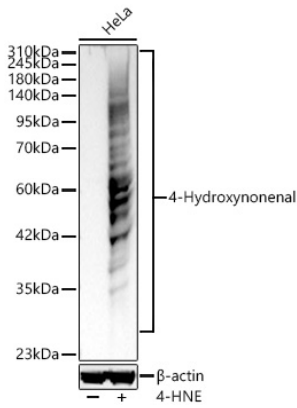
Affinity purification

Storage

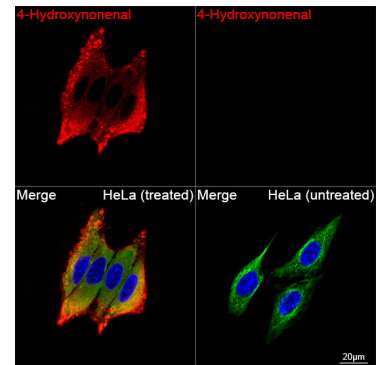
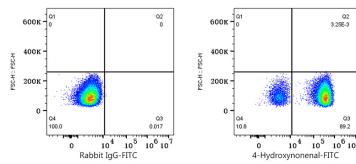
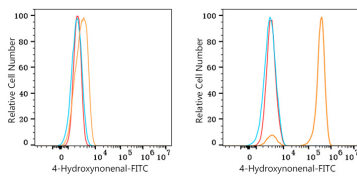
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from HeLa cells using 4-Hydroxynonenal Rabbit mAb (A26085) at 1:50000 dilution incubated overnight at 4°C. HeLa cells were treated by 4-HNE (0.2 mg/ml) at 37°C for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 μ g per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Flow cytometry: 1×10^6 HeLa cells (negative control, left) and HeLa cells (treated with 4-Hydroxynonenal, right) were intracellularly-stained with 4-Hydroxynonenal Rabbit mAb (A26085, 2 μ g/mL, orange line) or Rabbit IgG isotype control (AC042, 2 μ g/mL, blue line), followed by FITC conjugated goat anti-Rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry: 1×10^6 HeLa cells (treated with 4-Hydroxynonenal) were intracellularly stained with Rabbit IgG isotype control (AC042, 2 μ g/mL, left) or 4-Hydroxynonenal Rabbit mAb (A26085, 2 μ g/mL, right), followed by FITC conjugated goat anti-Rabbit pAb staining.

Confocal imaging of HeLa cells (treated with 4-HNE) and HeLa cells (untreated) using 4-Hydroxynonenal Rabbit mAb (A26085, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.