

ABflo® 647 Rabbit anti-4-Hydroxynonenal/4-HNE mAb

Catalog NO.: A26081

Basic Information

Observed MW

Calculated MW

Category

Other Modified Antibodies

Applications

FC (intra)

Cross-Reactivity

Species independent

Conjugation

ABflo® 647. Ex:648nm. Em:664nm.

Clone 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

FC (intra) 5 µl per 10⁶ cells in 100 µl volume

Immunogen Information

Gene ID

Swiss Prot

Immunogen

Chemical compounds corresponding to 4-Hydroxynonenal.

Synonyms

4-HNE

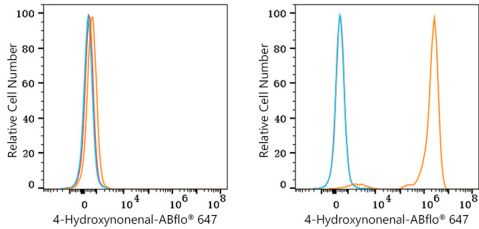
Contact

Product Information

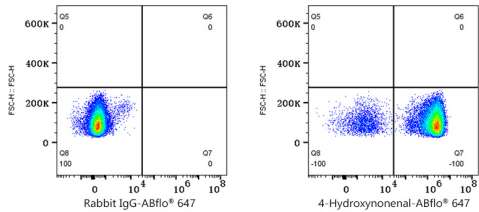
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Source	Isotype	Purification
Rabbit	IgG	Affinity purification
Storage		
Store at 2-8°C. Avoid freeze.		
Buffer: PBS with 0.09% Sodium azide,0.2% BSA,pH7.3.		

Validation Data



Flow cytometry: 1X10⁶ HeLa cells (negative control,left) and HeLa cells (treated with 4-Hydroxynonenal,right) were intracellularly-stained with ABflo® 647 Rabbit anti-4-Hydroxynonenal mAb (A26081,5 µl/Test,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10⁶ HeLa cells (treated with 4-Hydroxynonenal) were intracellularly-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or ABflo® 647 Rabbit anti-4-Hydroxynonenal mAb (A26081,5 µl/Test,right).

