Leader in Biomolecular Solutions for Life Science

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ABflo® 488 Rabbit anti-4-Hydroxynonenal/4-HNE mAb

Catalog No.: A26080

Basic Information

Observed MW

Calculated MW

Category
Primary antibody

Applications
FC (intra)

Cross-Reactivity
Species independent

CloneNo number
ARC70314

Conjugate
ABflo® 488. Ex:491nm. Em:516nm.

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 include inflammation, neurodegenerative diseases, and ischemic damage to the heart and brain.

Recommended Dilutions

FC (intra)	5 µl per 10^6 cells in 100 µl volume

Immunogen Information

Gene ID

Swiss Prot

Immunogen
Chemical compounds corresponding to 4-Hydroxynonenal.

Synonyms
4-HNE

Contact

400-999-6126

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Product Information

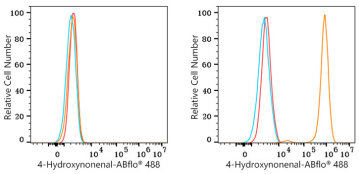
Source
Rabbit

Isotype
IgG

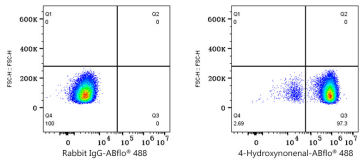
Purification
Affinity purification

Storage
Store at 2-8℃. Avoid freeze.
Buffer: PBS with 0.09% Sodium azide,0.2% BSA,pH7.3.

Validation Data



Flow cytometry: 1X10^6 HeLa cells (negative control,left) and HeLa cells (treated with 4-Hydroxynonenal,right) were intracellularly-stained with ABflo® 488 Rabbit anti-4-Hydroxynonenal mAb (A26080,5 µl/Test,orange line) or ABflo® 488 Rabbit IgG isotype control (A22069,5 µl/Test,blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 HeLa cells (treated with 4-Hydroxynonenal) were intracellularly-stained with ABflo® 488 Rabbit IgG isotype control (A22069,5 µl/Test,left) or ABflo® 488 Rabbit anti-4-Hydroxynonenal mAb (A26080,5 µl/Test,right).