

**bs-6313R****[ Primary Antibody ]****Bioss**  
ANTIBODIES

www.bioss.com.cn

sales@bioss.com.cn

techsupport@bioss.com.cn

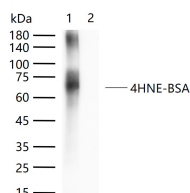
400-901-9800

## 4 Hydroxynonenal Rabbit pAb

### DATASHEET

|   |                     |  |
|---|---------------------|--|
| <b>Host:</b> Rabbit   | <b>Isotype:</b> IgG | <b>Applications:</b> <b>WB</b> (1:500-2000)<br><b>IHC-P</b> (1:100-500)<br><b>IHC-F</b> (1:100-500)<br><b>IF</b> (1:100-500) |
| <b>Clonality:</b> Polyclonal  |                     | <b>Reactivity:</b> Species independent   |
| <b>Target:</b> 4 Hydroxynonenal   |                     |  |
| <b>Purification:</b> affinity purified by Protein A   |                     |  |
| <b>Concentration:</b> 1mg/ml  |                     |  |
| <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.  |                     | <b>Predicted MW.:</b> 0.156 kDa  |
| <b>Background:</b> Reactive oxygen and nitrogen species (ROS/RNS) have taken center stage in the field of signal transduction. The enzymes responsible for the production of ROS and RNS have been unraveled and the participation of these species in numerous signaling pathways has been documented. The next step is to identify the targets of ROS and RNS and the mechanisms by which they alter their activity in the affected signaling pathway. This book provides relevant chemistry that can be applied across signaling systems and summarizes the current state of knowledge in the area of redox signaling. ROS and RNS have been implicated in inflammation, aging and cancer. |                     | <b>Subcellular Location:</b> Cytoplasm   |

### VALIDATION IMAGES



Sample: Lane 1: 4HNE-BSA (50ng) Lane 2: BSA (50ng)  
Primary: Anti-4 Hydroxynonenal (bs-6313R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 0.156 kDa  
Observed band size: 66 kDa

### SELECTED CITATIONS

- **[IF=38.104]** Yuan Ye. et al. Exosomes secreted from cardiomyocytes suppress the sensitivity of tumor ferroptosis in ischemic heart failure. SIGNAL TRANSDUCT TAR. 2023 Mar;8(1):1-15 IHC ;Mouse. 36967385
- **[IF=31.743]** Hannah N. Bell. et al. Reuterin in the healthy gut microbiome suppresses colorectal cancer growth through altering redox balance. Cancer Cell. 2021 Dec; IF ;Mouse. 34951957
- **[IF=20.8]** Huang Wesley. et al. Fibroblast lipid metabolism through ACSL4 regulates epithelial sensitivity to ferroptosis in IBD. NAT METAB. 2025 Jun;1-17 IHC ;Mouse. 40571769
- **[IF=16.6]** Lin Peihua. et al. An artificial protein modulator reprogramming neuronal protein functions. NAT COMMUN. 2024 Mar;15(1):1-16 IF ;Mouse. 38448420
- **[IF=15.8]** Qianqian Xie. et al. Discovery of Lipoygenase-Like Materials for Inducing Ferroptosis. ACS NANO. 2024;18(47):32438-32450 IHC ;Mouse. 39532303

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.