

bs-6313R**[Primary Antibody]****Bioss**
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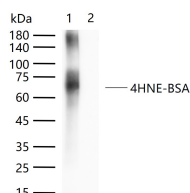
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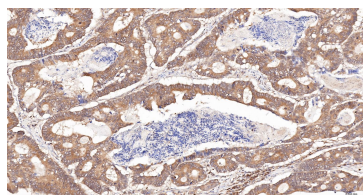
400-901-9800

4-HNE Rabbit pAb**DATASHEET**

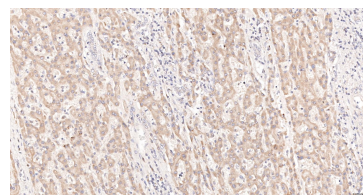
Host: Rabbit Clonality: Polyclonal Target: 4-HNE Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: Reactive oxygen and 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.	Isotype: IgG Applications: WB (1:500-2000) IHC-P (1:200-1000) IHC-F (1:200-1000) IF (1:200-1000) Reactivity: Species independent Predicted MW.: 0.156 kDa Observed MW.: 66 kDa Subcellular Location: Cytoplasm
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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



Paraformaldehyde-fixed, paraffin embedded Human colon cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with 4 Hydroxynonenal Polyclonal Antibody, Unconjugated (bs-6313R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human liver cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with 4 Hydroxynonenal Polyclonal Antibody, Unconjugated (bs-6313R) at 1:1000 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=52.7]** Li Jie. et al. Adipocytes orchestrate obesity-related chronic inflammation through β 2-microglobulin. SIGNAL TRANSDUCT TAR. 2025 Dec;10(1):394 mIF ;Mouse. 41330906
- **[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=27.6]** Haku Yasuharu. et al. Active aldehydes accelerate CD8+ T cell exhaustion by metabolic alteration in the tumor microenvironment. NAT IMMUNOL. 2026 Jan;;1-14 FC ;Mouse. 41501155
- **[IF=20.8]** Huang Wesley. et al. Fibroblast lipid metabolism through ACSL4 regulates epithelial sensitivity to ferroptosis

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

in IBD. NAT METAB. 2025 Jun;;1-17 IHC ;Mouse. 40571769