

bs-11431R**[Primary Antibody]****DUOX1 Rabbit pAb****BioSS**
ANTIBODIES

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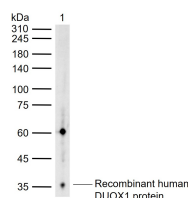
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— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 53905 Target: DUOX1 Immunogen: KLH conjugated synthetic peptide derived from human DUOX1: 1-100/1551. < Extracellular > 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: Dual oxidase 1 (DUOX1), a homolog of glycoprotein p91Phox, is expressed in airway epithelium and generates reactive oxygen species (ROS). DUOX1 is a multi-pass membrane protein predominantly expressed in thyrocytes and tracheal surface epithelial cells, as well as thyroid, trachea and bronchium. DUOX1 generates hydrogen peroxide, which is crucial for thyroid peroxidase and lactoperoxidase. It is also involved in thyroid hormone synthesis and lactoperoxidase-mediated antimicrobial defense in mucosa. DUOX1, which also plays a role in mucin expression, is widely expressed in fetal tissues.	Isotype: IgG SWISS: Q9NRD9	Applications: WB (1:500-2000) Reactivity: Human (predicted: Mouse, Rat) Predicted MW.: 175 kDa Subcellular Location: Cell membrane
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— VALIDATION IMAGES —

Sample: Lane 1: Recombinant human DUOX1
proteinbs-(42186P) Primary: Anti-DUOX1
(bs-11431R) at 1/1000 dilution Secondary:
IRDye800CW Goat Anti-Rabbit IgG at 1/20000
dilution Predicted band size: 62 kDa Observed
band size: 36 kDa

— SELECTED CITATIONS —

- **[IF=7.5]** Hongmei Tang. et al. Astaxanthin attenuated cigarette smoke extract-induced apoptosis via decreasing oxidative DNA damage in airway epithelium. BIOMED PHARMACOTHER. 2023 Nov;167:115471 WB ;Mouse,Human. 37699317
- **[IF=4.8]** Ma Yijun. et al. Aquaporin-7 Facilitates Proliferation and Adipogenic Differentiation of Mouse Bone Marrow Mesenchymal Stem Cells by Regulating Hydrogen Peroxide Transport. Stem Cell Reviews and Reports. 2023 Jul;:1-13 WB ;Mouse. 37432580
- **[IF=4.171]** Zhao Y et al. Walnut Polyphenol Extract Protects against Malathion- and Chlorpyrifos-Induced Immunotoxicity by Modulating TLRx-NOX-ROS. Nutrients. 2020 Feb 27;12(3). pii: E616. WB ;Mouse. 32120800
- **[IF=3.8]** Bernhardt Anne. et al. Oxidative stress and regulation of adipogenic differentiation capacity by sirtuins in

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adipose stem cells derived from female patients of advancing age. SCI REP-UK. 2024 Aug;14(1):1-15 WB ;Human. 39191852

- **[IF=1.5]** Xiao-Feng Ruan. et al. Identification and validation of ferroptosis-related prognostic gene signature in patients with cervical cancer. TRANSL CANCER RES. 2024 Jul 31; 13(7): 3382–3396 WB ;Human. 39145078