# DUOX1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | DUOX1, Polyclonal Antibody |
| **Full Product Name** | DUOX1 |
| **Product Gene Name** | anti-DUOX1 antibody |
| **Product Synonym Names** | LNOX1; THOX1; NOXEF1 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human<br>Predicted: Rat, Mouse |
| **Form/Format** | Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol. |
| **Purity/Purification** | Purified By Antigen Affinity Column |
| **Molecular Weight** | 177KD |
| **Immunogen** | Recombinant fragment corresponding to 283-448aa of human DUOX1. |
| **Cellular Localization** | Cell Membrane, Membrane |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-DUOX1 antibody** | ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC) |
| **Application Notes for anti-DUOX1 antibody** | ELISA: 1:20,000-80,000<br>WB: 1:200-1,000<br>IHC: 1:100-500 |
| **Related Product Information for anti-DUOX1 antibody** | MBS8560758 is an antibody targeting DUOX1. Reactive in Human<br>Predicted: Rat, Mouse. Host: Rabbit. Homo sapiens dual oxidase 1, mRNA |
| **Product References and Citations for anti-DUOX1 antibody** | Satoh J, Kawana N, Yamamoto Y, et al. Pathway Analysis of ChIP-Seq-Based NRF1 Target Genes Suggests a Logical Hypothesis of their Involvement in the Pathogenesis of Neurodegenerative Diseases. Gene Regul Syst Bio. 7:139-52 (2013) |
| **Other Notes** | Small volumes of anti-DUOX1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUOX1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 109732068 |
| **NCBI GeneID** | 53905 |
| **NCBI Accession #** | BC114938 |
| **UniProt Related Accession #** | Q9NRD9 |
| **NCBI Official Full Name** | Homo sapiens dual oxidase 1, mRNA |

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| **NCBI Official Synonym Full Names** | dual oxidase 1 |
| **NCBI Official Symbol** | DUOX1 |
| **NCBI Official Synonym Symbols** | LNOX1; THOX1; NOXEF1 |
| **Protein Family** | Dual oxidase |
| **NCBI Protein Information** | dual oxidase 1 |
| **NCBI Summary for DUOX1** | The protein encoded by this gene is a glycoprotein and a member of the NADPH oxidase family. The synthesis of thyroid hormone is catalyzed by a protein complex located at the apical membrane of thyroid follicular cells. This complex contains an iodide transporter, thyroperoxidase, and a peroxide generating system that includes proteins encoded by this gene and the similar DUOX2 gene. This protein is known as dual oxidase because it has both a peroxidase homology domain and a gp91phox domain. This protein generates hydrogen peroxide and thereby plays a role in the activity of thyroid peroxidase, lactoperoxidase, and in lactoperoxidase-mediated antimicrobial defense at mucosal surfaces. Two alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq, Jul 2012] |
| **Research Articles on DUOX1** | **1.** this review discusses the current level of understanding with respect to the biological role(s) of DUOX enzymes and the unique role of DUOX1 in mediating innate immune responses to epithelial injury and allergens and in the development of allergic disease. |
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