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[Primary Antibody]

Rabbit Anti-DUOX1 antibody

Catalog Number: SL11431R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human (predicted: Mouse, Rat)
Predicted MW.:	175kDa
Subcellular Location:	The cell membrane
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. **Function:** 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 this encoded protein and DUOX2. This protein is known as dual oxidase because it has both a peroxidase homology domain

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	and a gp91phox domain. Two alternatively spliced transcript variants encoding the same protein have been described for this gene (from EntrezGene). **Subunit:** Interacts with TXNDC11, TPO and CYBA. **Subcellular Location:** Apical cell membrane; Multi-pass membrane protein. Note=Localizes to the apical membrane of epithelial cells. **Tissue Specificity:** Expressed in thyrocytes and tracheal surface epithelial cells (at protein level). Expressed in thyroid, trachea, bronchium, and to a lower extent, in placenta, testis, prostate, pancreas and heart. **Post-translational modifications:** N-glycosylated. **Similarity:** In the N-terminal section; belongs to the peroxidase family. Contains 3 EF-hand domains. Contains 1 FAD-binding FR-type domain. Contains 1 ferric oxidoreductase domain. **Database links:** **Entrez Gene:** 53905 Human **Entrez Gene:** 99439 Mouse **Entrez Gene:** 266807 Rat Omim: 606758 Human **SwissProt:** Q9NRD9 Human **SwissProt:** Q8CIY2 Rat **Unigene:** 272813 Human **Unigene:** 108582 Mouse

[VALIDATION IMAGES]

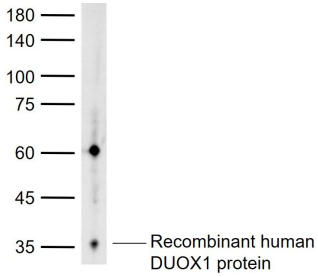


Figure 1. Sample: Lane 1: Recombinant human DUOX1 proteinbs-(42186P) Primary: Anti-DUOX1 (SL11431R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 62 kDa Observed band size: 36 kDa

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