



Rabbit Anti-DUOX1 antibody

SL11431R

Product Name:	DUOX1
Chinese Name:	双氧化酶1/甲状腺氧化酶1抗体
Alias:	Dual oxidase 1; Dual oxidase 1 precursor; DUOX1; EC 1.11.1; EC 1.6.3.1; Flavoprotein NADPH oxidase; Large NOX 1; LNOX1; Long NOX 1; MGC138840; MGC138841; NADPH thyroid oxidase 1; Nicotinamide adenine dinucleotide phosphate oxidase; NOXEF1; THOX1; Thyroid oxidase 1; DUOX1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	175kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DUOX1:1-100/1551<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 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.

SWISS:

Q9NRD9

Gene ID:

53905

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

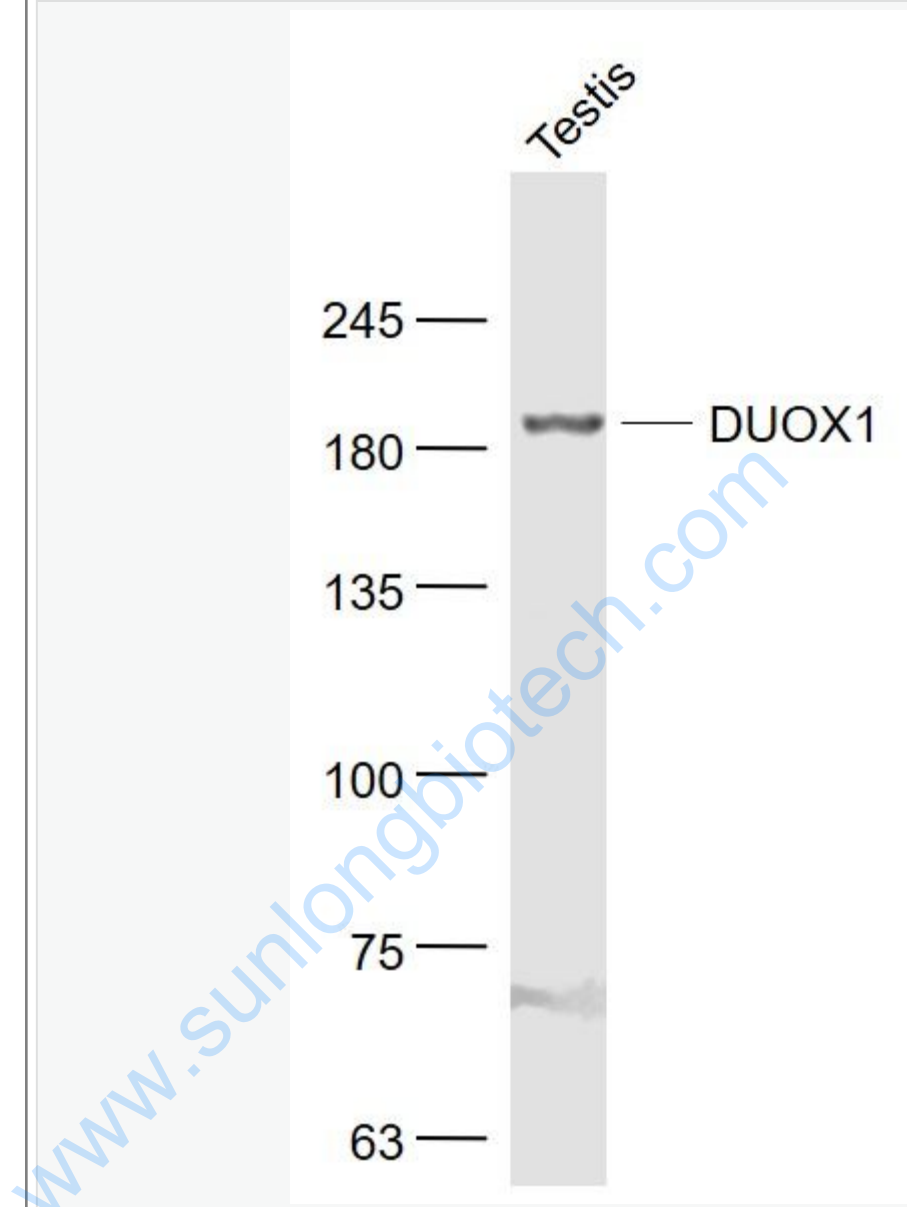
[Unigene: 108582](#)Mouse

Important Note:

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

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Picture:



Sample:

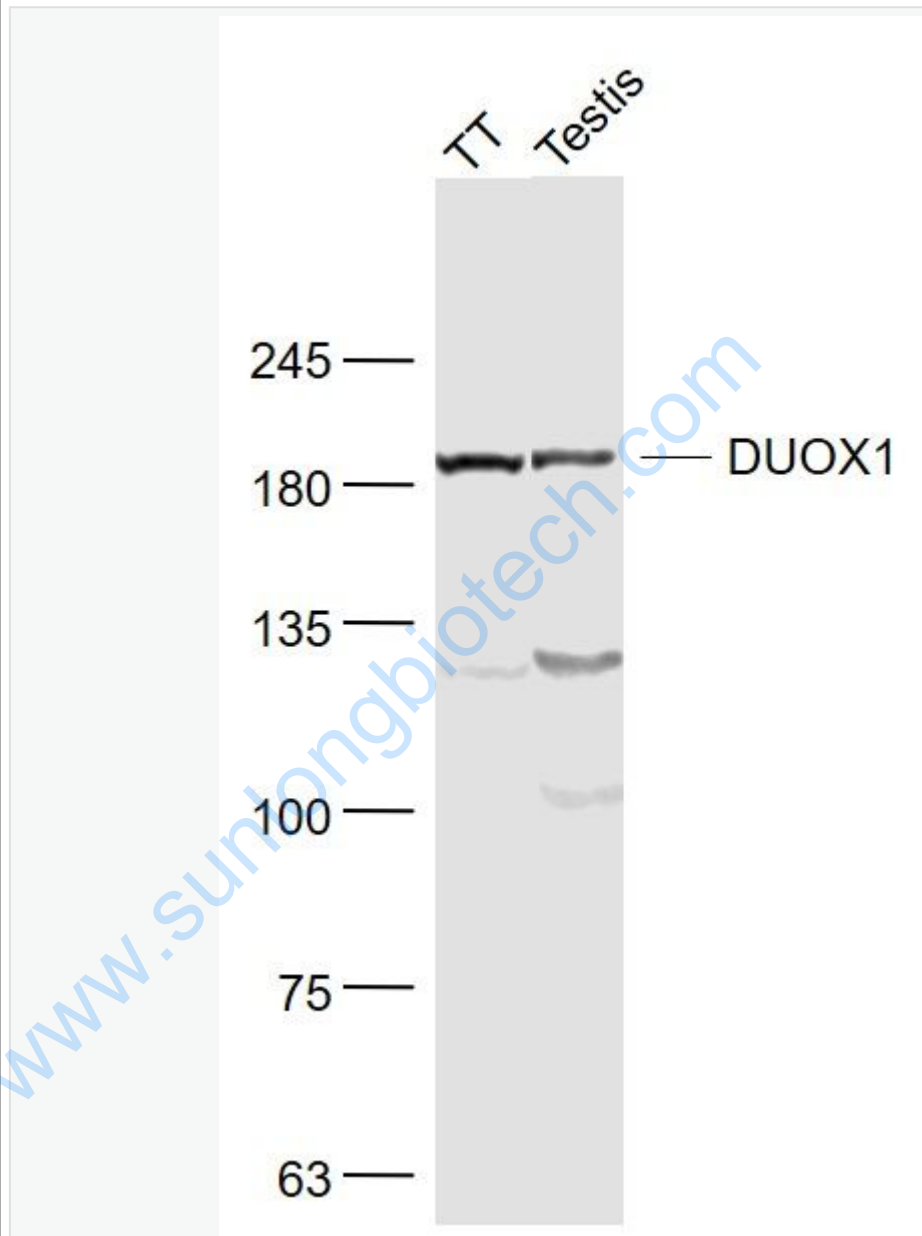
Testis (Mouse) Lysate at 40 ug

Primary: Anti- DUOX1 (SL11431R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 175 kD

Observed band size: 200 kD



Sample:

TT(Human) Cell Lysate at 30 ug

Testis (Rat) Lysate at 40 ug

Primary: Anti- DUOX1 (SL11431R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 175 kD

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