



# DUOX1 rabbit pAb

<b>Catalog No</b>	BYab-11518
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	DUOX1 DUOX LNOX1 THOX1
<b>Protein Name</b>	DUOX1
<b>Immunogen</b>	Synthesized peptide derived from human DUOX1 AA range: 1398-1448
<b>Specificity</b>	This antibody detects endogenous levels of DUOX1 at Human/Rat
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1: 500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	
<b>Cell Pathway</b>	Apical cell membrane ; Multi-pass membrane protein . Localizes to the apical membrane of epithelial cells.
<b>Tissue Specificity</b>	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.
<b>Function</b>	catalytic activity:NAD(P)H + O(2) = NAD(P)(+) + H(2)O(2).,developmental stage:Widely expressed in fetal tissues.,enzyme regulation:The NADPH oxidase activity is calcium-dependent. Peroxidase activity is inhibited by aminobenzohydrazide.,function:Generates hydrogen peroxide which is required for the activity of thyroid peroxidase/TPO and lactoperoxidase/LPO. Plays a role in thyroid hormones synthesis and lactoperoxidase-mediated antimicrobial defense at the surface of mucosa. May have its own peroxidase activity through its N-terminal peroxidase-like domain.,induction:By forskolin (at protein level). By thyrotropin and the Th2-specific cytokines IL-4 and IL-13.,pathway:Hormone biosynthesis; thyroid hormone biosynthesis.,PTM:N-glycosylated.,sequence

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caution:Translated as Arg.,similarity:Contains 1 FAD-binding FR-type domain.,similarity:Contains 1 ferric oxidoreductase domain.,similarity:Co

### Background

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],

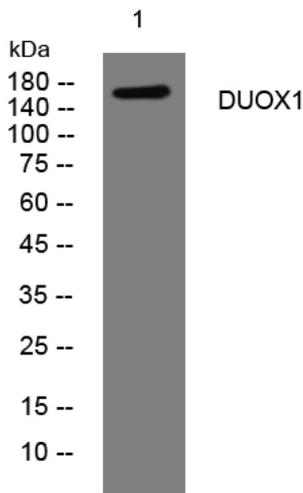
### matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



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