

Rabbit Anti-Human DUOX2 Polyclonal Antibody

Cat. No. CPBT-32950RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Rabbit

Product Overview Rabbit polyclonal to human DUOX2.

Antigen Description

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 DUOX1. This protein is known as dual oxidase because it has both a peroxidase homology domain and a gp91phox domain.

Immunogen Synthetic peptide corresponding to internal sequence amino acids of Human DUOX2.

Host animal Rabbit

Cross reactivity Reacts with Rat, Human; Predicted to work with Mouse

Isotype IgG

Purity Immunogen affinity purified

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Applications	WB, IHC-P		
Positive control	HeLa, Jurkat, MCF7 and SMMC cell lysates.		
Sequencesimilarities	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.		
Concentration	100 g at 0.5mg/ml		
Form	Liquid		
Storage Buffer	Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azideConstituents: 0.1% Dibasic monohydrogen sodium phosphate, 0.45% Sodium chloride, 2.5% BSA		
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.		
nullValue other	Function	NAD(P)H oxidase activity; calcium ion binding; heme binding; peroxidase activity	

GENE INFORMATION

Gene Name	DUOX2 dual oxidase 2 [Homo sapiens]
Official Symbol	DUOX2
Synonyms	DUOX2; dual oxidase 2; TDH6; LNOX2; THOX2; NOXEF2; P138-TOX; dual oxidase 2; long NOX 2; large NOX 2; thyroid oxidase 2; p138 thyroid oxidase; NADPH thyroid oxidase 2; flavoprotein NADPH oxidase; dual oxidase-like domains 2; NADPH oxidase/peroxidase DUOX2; NADH/NADPH thyroid oxidase p138-tox; nicotinamide adenine dinucleotide phosphate oxidase; EC 1.6.3.1; EC 1.11.1

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Gene ID	50506
mRNA Refseq	NM_014080
Protein Refseq	NP_054799
MIM	606759
UniProt ID	Q9NRD8
Chromosome Location	15q15.3
Pathway	NOD pathway, organism-specific biosystem

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