

Product datasheet for **TA320203**

DUOX1 Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 0.1-0.3ug/ml, ELISA: 1:128,000
Reactivity:	Human
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide with sequence CSRSDIETELTPQR (aa972-985), from the internal region of the protein sequence according to NP_059130.2
Formulation:	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	177 kDa
Gene Name:	dual oxidase 1
Database Link:	NP_059130 Entrez Gene 53905 Human Q9NRD9



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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.

Synonyms:

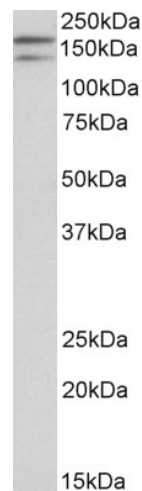
LNOX1; NOXEF1; THOX1

Note:

Approx 170kDa band observed in Human Testis lysates (calculated MW of 177kDa according to NP_059130.2). Recommended concentration: 0.1-0.3µg/ml. An additional band of unknown identity was also consistently observed at 140kDa. This band was successfully blocked by incubation with the immunizing peptide.

Protein Families:

Druggable Genome, Transmembrane

Product images:

Anti-DUOX1 (0.1ug/ml) staining of Human Testis lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.