



Human DUOX1 blocking peptide (CDBP1064)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-Dual oxidase 1 antibody
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 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.
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	DUOX1 dual oxidase 1 [Homo sapiens]
Official Symbol	DUOX1

Synonyms	DUOX1; dual oxidase 1; flavoprotein NADPH oxidase; LNOX1; NADPH thyroid oxidase 1; nicotinamide adenine dinucleotide phosphate oxidase; NOXEF1; THOX1; long NOX 1; large NOX 1; thyroid oxidase 1; MGC138840; MGC138841;
Entrez Gene ID	53905
mRNA Refseq	NM_017434
Protein Refseq	NP_059130
UniProt ID	Q9NRD9
Chromosome Location	15q21
Function	NAD(P)H oxidase activity; NADP binding; calcium ion binding; electron carrier activity; flavin adenine dinucleotide binding; heme binding; oxidoreductase activity; peroxidase activity;