



Anti-DUOX1 (aa 941-1028) polyclonal antibody (DPAB-DC2292)

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

PRODUCT INFORMATION

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.
Immunogen	DUOX1 (NP_059130, 941 a.a. ~ 1028 a.a) partial recombinant protein with GST tag. The sequence is VEVPEVIKDLCCRASYISQDMICSPRV SARCSRSDIETELTPQRLQCPMDTDPPQEIRR RFGKKVTSFQPLL FTEAHREKFQRSCLH
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	DUOX1 dual oxidase 1 [Homo sapiens (human)]
Official Symbol	DUOX1
Synonyms	DUOX1; dual oxidase 1; LNOX1; THOX1; NOXEF1; long NOX 1; large NOX 1; thyroid oxidase 1; NADPH thyroid oxidase 1; flavoprotein NADPH oxidase; nicotinamide adenine dinucleotide phosphate oxidase;
Entrez Gene ID	53905
Protein Refseq	NP_059130
UniProt ID	Q9NRD9
Chromosome Location	15q15.3
Function	NAD(P)H oxidase activity; NADP binding; calcium ion binding; heme binding