



## Anti-DUOX2 monoclonal antibody (DCABH-11337)

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 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** A synthetic peptide of human DUOX2 is used for rabbit immunization.

**Isotype** IgG

**Source/Host** Rabbit

**Species Reactivity** Human

**Purification** Protein A

**Conjugate** Unconjugated

**Applications** Western Blot (Transfected lysate); ELISA

**Buffer** In 1x PBS, pH 7.4

**Preservative** None

**Storage** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">DUOX2 dual oxidase 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	DUOX2
<b>Synonyms</b>	DUOX2; dual oxidase 2; dual oxidase like domains 2; flavoprotein NADPH oxidase; LNOX2; NADH/NADPH thyroid oxidase p138 tox; NADPH oxidase/peroxidase DUOX2; NADPH thyroid oxidase 2; nicotinamide adenine dinucleotide phosphate oxidase; P138(TOX); P138 TOX; THOX2; long NOX 2; large NOX 2; thyroid oxidase 2; p138 thyroid oxidase; dual oxidase-like domains 2; NADH/NADPH thyroid oxidase p138-tox; TDH6; NOXEF2; P138-TOX;
<b>Entrez Gene ID</b>	<a href="#">50506</a>
<b>Protein Refseq</b>	<a href="#">NP_054799</a>
<b>UniProt ID</b>	<a href="#">Q9NRD8</a>
<b>Chromosome Location</b>	15q15.3-q21
<b>Function</b>	NAD(P)H oxidase activity; calcium ion binding; electron carrier activity; flavin adenine dinucleotide binding; heme binding; oxidoreductase activity; peroxidase activity;