

DUOX2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11227c**Specification**

DUOX2 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q9NRD8](#)**DUOX2 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 50506**Other Names**

Dual oxidase 2, 1111-, Large NOX 2, Long NOX 2, NADH/NADPH thyroid oxidase p138-tox, NADPH oxidase/peroxidase DUOX2, NADPH thyroid oxidase 2, Thyroid oxidase 2, p138 thyroid oxidase, DUOX2, LNOX2, THOX2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DUOX2 Antibody (Center) Blocking peptide - Protein Information**Name** DUOX2**Synonyms** LNOX2, THOX2**Function**

Generates hydrogen peroxide which is required for the activity of thyroid peroxidase/TPO and lactoperoxidase/LPO. Plays a role in thyroid hormones synthesis and lactoperoxidase-mediated antimicrobial defense at the surface of mucosa. May have its own peroxidase activity through its N-terminal peroxidase-like domain.

Cellular Location

Apical cell membrane; Multi-pass membrane protein. Cell junction. Note=Localizes to the apical membrane of epithelial cells. Localizes on internal membrane structures under resting conditions, translocates to the plasma membrane and cell-cell junctions upon challenge with enteric pathogens, such as Escherichia coli.

Tissue Location

Expressed in colon, small intestine, duodenum and tracheal surface epithelial cells (at protein level). Expressed in thyrocytes. Also detected in kidney, liver, lung, pancreas, prostate, salivary

glands, rectum and testis.

DUOX2 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

DUOX2 Antibody (Center) Blocking peptide - Images

DUOX2 Antibody (Center) Blocking peptide - 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 this encoded protein and DUOX1. This protein is known as dual oxidase because it has both a peroxidase homology domain and a gp91phox domain.

DUOX2 Antibody (Center) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Salmeen, A., et al. Oncogene 29(31):4473-4484(2010) Linderholm, A.L., et al. Am. J. Physiol. Lung Cell Mol. Physiol. 299 (2), L215-L221 (2010) :Roberts, K.E., et al. Gastroenterology 139(1):130-139(2010) Hill, T. III, et al. Biochem. Biophys. Res. Commun. 395(2):270-274(2010)