

ARG64515 anti-Dual oxidase 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Dual oxidase 1
Tested Reactivity	Hu
Tested Application	IHC-P
Specificity	This antibody is expected to recognise both reported isoforms (NP_059130.2 ; NP_787954.1) which are identical;
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Dual oxidase 1
Species	Human
Immunogen	EKFQRSLHQTQVQ
Conjugation	Un-conjugated
Alternate Names	EC 1.11.1.-; NOXEF1; EC 1.6.3.1; Large NOX 1; Long NOX 1; NADPH thyroid oxidase 1; LNOX1; THOX1; Thyroid oxidase 1; Dual oxidase 1

Application Instructions

Application table	Application	Dilution
	IHC-P	4 - 6 µg/ml
Application Note	IHC-P: Antigen Retrieval: Steam tissue section in Tris/EDTA buffer (pH 9.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 53905 Human](#)

[Swiss-port # Q9NRD9 Human](#)

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. [provided by RefSeq, Jul 2012]

Research Area

Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody

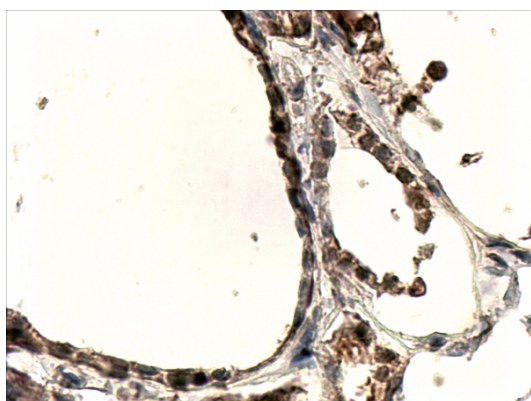
Calculated Mw

177 kDa

PTM

N-glycosylated.

Images



ARG64515 anti-Dual oxidase 1 antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Thyroid Gland. (Steamed antigen retrieval with Tris/EDTA buffer pH 9) stained with ARG64515 anti-Dual oxidase 1 antibody at 4 µg/ml dilution followed by HRP-staining.