

ARG45419 anti-Duox2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Duox2
Tested Reactivity	Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Duox2
Species	Mouse
Immunogen	Recombinant protein containing to mouse Duox2.
Conjugation	Un-conjugated
Alternate Names	DUOX2; Dual Oxidase 2; THOX2; LNOX2; NADH/NADPH Thyroid Oxidase P138-Tox; NADPH Oxidase/Peroxidase DUOX2; NADPH Thyroid Oxidase 2; P138-TOX; Nicotinamide Adenine Dinucleotide Phosphate Oxidase; Dual Oxidase-Like Domains 2; Flavoprotein NADPH Oxidase; P138 Thyroid Oxidase; Thyroid Oxidase 2; Large NOX 2; Long NOX 2; P138(TOX); EC 1.11.1.-; EC 1.6.3.1; NOXEF2; TDH6

Application Instructions

Application table	Application	Dilution
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	175 kDa	

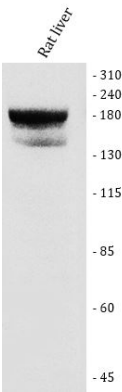
Properties

Form	Powder
Purification	Affinity purified
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
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.

Bioinformation

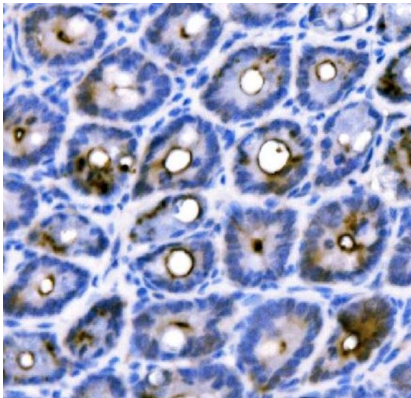
Gene Symbol	DUOX2
Gene Full Name	Dual Oxidase 2
Background	The protein encoded by this gene is a glycoprotein and a member of the NADPH oxidase family. The synthesis of thyroid hormone is catalyzed by a protein complex located at the apical membrane of thyroid follicular cells. This complex contains 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. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	175 kDa
PTM	Disulfide bond; Glycoprotein. [UniProt]
Cellular Localization	Cell junction; Cell membrane; Membrane. [UniProt]

Images



ARG45419 anti-Duox2 antibody WB image

Western blot: Rat liver stained with ARG45419 anti-Duox2 antibody at 0.5 µg/ml dilution.



ARG45419 anti-Duox2 antibody IHC-P image

Immunohistochemistry: Mouse colon stained with ARG45419 anti-Duox2 antibody at 2 µg/ml dilution.



ARG45419 anti-Duox2 antibody WB image

Western blot: Mouse liver stained with ARG45419 anti-Duox2 antibody at 0.5 µg/ml dilution.