

Datasheet for ABIN7602208
anti-DUOX2 antibody (AA 63-403)



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Overview

Quantity:	100 µg
Target:	DUOX2
Binding Specificity:	AA 63-403
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DUOX2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	Anti-Duox2 Antibody Picoband®
Immunogen:	E.coli-derived mouse Duox2 recombinant protein (Position: A63-D403).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Duox2 Antibody Picoband® (ABIN7602208). Tested in ELISA, IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	DUOX2
Alternative Name:	Duox2 (DUOX2 Products)
Background:	<p>Synonyms: Glycophorin-A, MN sialoglycoprotein, PAS-2, Sialoglycoprotein alpha, CD235a, GYPA, GPA</p> <p>Tissue Specificity: Renal medulla and colon. Predominantly in the inner medulla. Expressed in basal layer of epidermal keratinocytes.</p> <p>Background: Dual oxidase 2, also known as DUOX2 or ThOX2 (for thyroid oxidase), is an enzyme that in humans is encoded by the DUOX2 gene. 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.</p>
Molecular Weight:	175 kDa
Gene ID:	214593
Pathways:	Thyroid Hormone Synthesis

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Mouse, Rat</p> <p>Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Mouse</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Caillou, B., Dupuy, C., Lacroix, L., Nocera, M., Talbot, M., Ohayon, R., Deme, D., Bidart, J.-M., Schlumberger, M., Virion, A. Expression of reduced nicotinamide adenine dinucleotide phosphate oxidase (ThoX, LNOX, Duox) genes and proteins in human thyroid tissues. J. Clin. Endocr. Metab. 86: 3351-3358, 2001. 2. De Deken, X., Wang, D., Many, M.-C., Costagliola, S., Libert, F., Vassart, G., Dumont, J. E., Miot, F. Cloning of two human thyroid cDNAs encoding new members of the NADPH oxidase family. J. Biol. Chem. 275: 23227-23233, 2000. 3. Dupuy, C., Ohayon, R., Valent, A., Noel-Hudson, M.-S., Deme, D., Virion, A. Purification of a novel flavoprotein involved in the thyroid NADPH oxidase: cloning of the porcine and human cDNAs. J. Biol. Chem. 274: 37265-37269, 1999.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.