


Anti-DUOX2 antibody ab97266

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概述

产品名称	Anti-DUOX2抗体
描述	兔多克隆抗体to DUOX2
宿主	Rabbit
特异性	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Rat 预测可用于: Human, Chimpanzee, Macaque monkey, Orangutan 
免疫原	Synthetic peptide corresponding to Rat DUOX2 aa 1-100 conjugated to keyhole limpet haemocyanin. Database link: Q9ES45
阳性对照	This antibody gave a positive signal in Rat Colon tissue lysate. This antibody gave a positive result in IHC in the following FFPE tissue: Rat Thyroid.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度 Immunogen affinity purified
克隆 多克隆
同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab97266于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 175 kDa.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能 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.

组织特异性 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.

通路 Hormone biosynthesis; thyroid hormone biosynthesis.

疾病相关 Defects in DUOX2 are a cause of thyroid dysmorphogenesis 6 (TDH6) [MIM:607200]. A disorder due to a defective conversion of accumulated iodide to organically bound iodine. The iodide organification defect can be partial or complete.

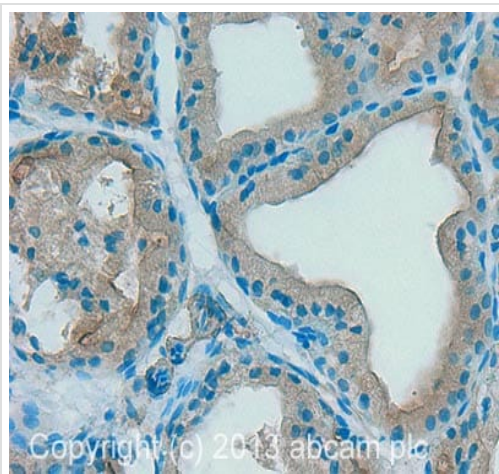
序列相似性 In the N-terminal section; belongs to the peroxidase family.
Contains 3 EF-hand domains.
Contains 1 FAD-binding FR-type domain.
Contains 1 ferric oxidoreductase domain.

发展阶段 Widely expressed in fetal tissues.

翻译后修饰 N-glycosylated.

细胞定位 Apical cell membrane. Localizes to the apical membrane of epithelial cells.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DUOX2 antibody (ab97266)

IHC image of DUOX2 staining in Rat thyroid formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab97266, 1 µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-DUOX2 antibody (ab97266)

Anti-DUOX2 antibody (ab97266) at 1 µg/ml (Milk blocking (3%) + Colon (Rat) Tissue Lysate at 25 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 175 kDa

Observed band size: 171 kDa

Exposure time: 20 minutes

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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