

DUOX1 Rabbit pAb

CatalogNo: YT6883

| Key Features

Host Species

- Rabbit

Reactivity

- Human,Rat

Applications

- WB

MW

- 171kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen Synthesized peptide derived from human DUOX1 AA range: 1398-1448

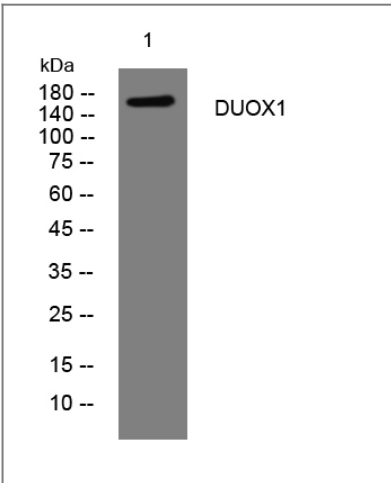
Specificity This antibody detects endogenous levels of DUOX1 at Human/Rat

| Target Information

Gene name DUOX1 DUOX LNOX1 THOX1

Protein Name	DUOX1		
	Organism	Gene ID	UniProt ID
	Human	53905;	Q9NRD9;
	Rat	266807;	Q8CIY2;
Cellular Localization	Apical cell membrane ; Multi-pass membrane protein . Localizes to the apical membrane of epithelial cells.		
Tissue specificity	Expressed in thyrocytes and tracheal surface epithelial cells (at protein level). Expressed in thyroid, trachea, bronchium, and to a lower extent, in placenta, testis, prostate, pancreas and heart.		
Function	Catalytic activity: $\text{NAD(P)H} + \text{O(2)} = \text{NAD(P)(+)} + \text{H(2)O(2)}$.,developmental stage:Widely expressed in fetal tissues.,enzyme regulation:The NADPH oxidase activity is calcium-dependent. Peroxidase activity is inhibited by aminobenzohydrazide.,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.,induction:By forskolin (at protein level). By thyrotropin and the Th2-specific cytokines IL-4 and IL-13.,pathway:Hormone biosynthesis; thyroid hormone biosynthesis.,PTM:N-glycosylated.,sequence Caution:Translated as Arg.,similarity:Contains 1 FAD-binding FR-type domain.,similarity:Contains 1 ferric oxidoreductase domain.,similarity:Contains 3 EF-hand domains.,similarity:In the N-terminal section; belongs to the peroxidase family.,subcellular location:Localizes to the apical membrane of epithelial cells.,subunit:Interacts with TXNDC11, TPO and CYBA.,tissue specificity:Expressed in thyrocytes and tracheal surface epithelial cells (at protein level). Expressed in thyroid, trachea, bronchium, and to a lower extent, in placenta, testis, prostate, pancreas and heart.,		

Validation Data



Western blot analysis of lysates from MCF-7 cells, primary antibody was diluted at 1:1000, 4°over night

Contact information

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DUOX1 Rabbit pAb

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