

For Research Use Only

# DUOX1 Monoclonal antibody

Catalog Number: 67226-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 67226-1-Ig	<b>GenBank Accession Number:</b> BC114938	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 53905	<b>CloneNo.:</b> 3B8D6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9NRD9	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IF-P 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> dual oxidase 1	
<b>Immunogen Catalog Number:</b> AG18154	<b>Calculated MW:</b> 1551 aa, 177 kDa	
	<b>Observed MW:</b> 190-200 kDa, 177 kDa, 138 kDa	

## Applications

<b>Tested Applications:</b> WB, IF-P, ELISA	<b>Positive Controls:</b> WB : human testis tissue, human placenta tissue IF-P : mouse stomach tissue,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> Human, mouse	
<b>Cited Species:</b> human	

## Background Information

DUOX1 (dual oxidase 1) is a calcium-activated transmembrane protein member of the NOX family of NADPH oxidases principally located on the apical surface of airway and thyroid epithelia (PMID: 28982074, 15677770, 10806195). DUOX1 is a strong generator of hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>), via intra-molecular dismutation of superoxide (PMID: 25586178). Epithelial DUOX1 appears to participate in additional host defense actions, such as mucociliary clearance, and may contribute to inflammatory responses and epithelial repair processes during exogenous stress (PMID: 19386603). DUOX1 has two isoforms with the calculated molecular mass of 177 and 138 kDa, and apparent molecular mass of 180-200 kDa due to the glycosylation (PMID: 17643428, 19144650).

## Notable Publications

Author	Pubmed ID	Journal	Application
Luc H J Sondorp	33142750	Cancers (Basel)	IF
Yan Song Li	38750444	BMC Mol Cell Biol	WB

## Storage

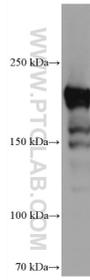
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

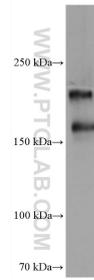
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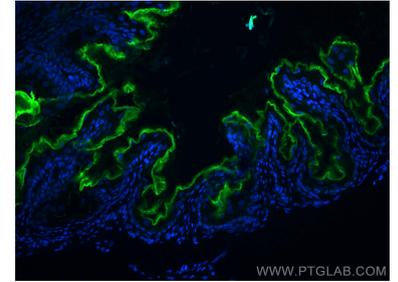
## Selected Validation Data



human testis tissue were subjected to SDS PAGE followed by western blot with 67226-1-Ig (DUOX1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



human placenta tissue were subjected to SDS PAGE followed by western blot with 67226-1-Ig (DUOX1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse stomach tissue using DUOX1 antibody (67226-1-Ig, Clone: 3B8D6) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L).