

For Research Use Only

DUOX1 Monoclonal antibody

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



Basic Information

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

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : human testis tissue, human placenta tissue IF : mouse stomach tissue,
Cited Applications: IF	
Species Specificity: Human	
Cited Species: 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 (H₂O₂), 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

Storage

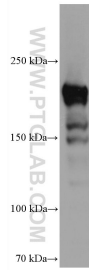
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

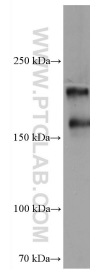
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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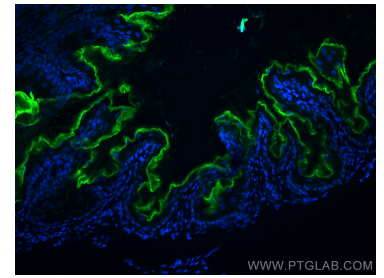
Selected Validation Data



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 AffiniPure Goat Anti-Mouse IgG(H+L).