

DUOX1 Monoclonal antibody

Catalog Number: 67226-1-Ig 2 Publications

Basic Information

Catalog Number:

67226-1-Ig

Size:

2100 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG18154

GenBank Accession Number:

BC114938

GeneID (NCBI):

53905

UNIPROT ID:

Q9NRD9

Full Name:

dual oxidase 1

Calculated MW:

1551 aa, 177 kDa

Observed MW:

190-200 kDa, 177 kDa, 138 kDa

Purification Method:

Protein A purification

CloneNo.:

3B8D6

Recommended Dilutions:

WB 1:1000-1:4000

IF-P 1:200-1:800

Applications

Tested Applications:

IF-P, WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

Human, mouse

Cited Species:

human

Positive Controls:

WB : human testis tissue, human placenta tissue

IF-P : mouse stomach tissue,

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
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

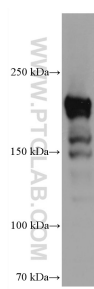
For technical support and original validation data for this product please contact:

T: 4006900926

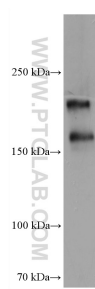
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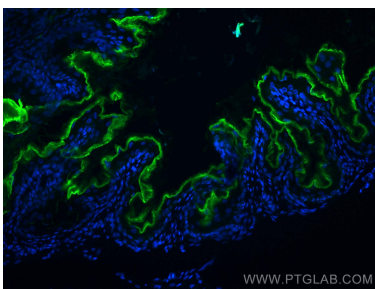
Selected Validation Data



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).