For Research Use Only

DOLPP1 Polyclonal antibody

Catalog Number:34200-1-AP

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
34200-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG40783

GenBank Accession Number:
BC033686

GeneID (NCBI):
57171

UNIPROT ID:
Q86YN1

Full Name:
dolichyl pyrophosphate phosphatase 1

Calculated MW:
238 aa, 27 kDa

Observed MW:
22 kDa

Purification Method:
Antigen affinity Purification

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:50-1:500
IF/ICC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : LNCaP cells, MCF-7 cells, MDA-MB-231 cells, RKO cells

IHC : human urothelial carcinoma tissue, human cervical cancer tissue

IF/ICC : U2OS cells, A431 cells

Background Information

DOLPP1 (Dolichyl Pyrophosphate Phosphatase 1) is a multiple-pass transmembrane protein localized to the endoplasmic reticulum membrane and serves as a key regulatory enzyme in the N-glycosylation pathway. This enzyme catalyzes the dephosphorylation of dolichyl pyrophosphate (Dol-PP) to generate dolichyl phosphate (Dol-P), thereby facilitating the recycling of glycosyl carrier lipids, which is essential for maintaining N-glycosylation efficiency and optimal levels of lipid-linked oligosaccharides (LLO). Deficiency of DOLPP1 leads to the accumulation of Dol-PP and depletion of Dol-P, resulting in protein glycosylation defects and endoplasmic reticulum stress. Studies have shown that DOLPP1 forms a functional network with glycosylation-related proteins such as MPDU1 and DPM1/2/3, participating in metabolic disorders associated with congenital disorders of glycosylation (CDG), and acts as an important regulator of the cellular secretory pathway and protein quality control.

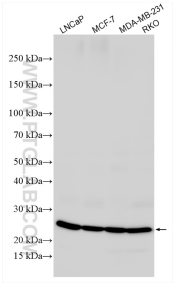
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

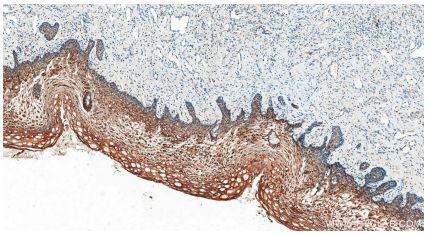
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

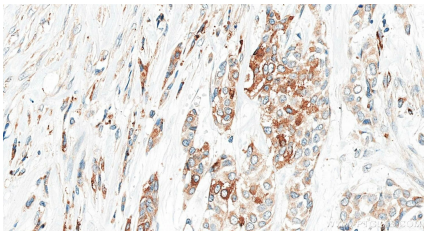
Selected Validation Data



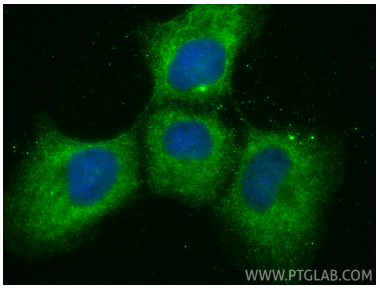
Various lysates were subjected to SDS PAGE followed by western blot with 34200-1-AP (DOLPP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



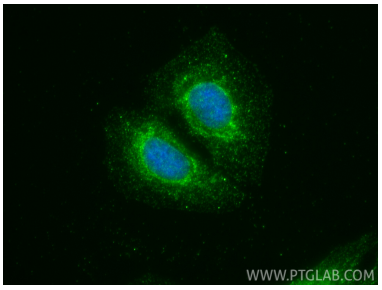
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 34200-1-AP (DOLPP1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 34200-1-AP (DOLPP1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using DOLPP1 antibody (34200-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using DOLPP1 antibody (34200-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).