

For Research Use Only

DOLPP1 Polyclonal antibody

Catalog Number: 34200-1-AP



Basic Information

Catalog Number: 34200-1-AP	GenBank Accession Number: BC033686	Purification Method: Antigen affinity Purification
Source: Rabbit	GeneID (NCBI): 57171	Recommended Dilutions: WB: 1:500-1:2000
Isotype: IgG	UNIPROT ID: Q86YN1	IHC: 1:50-1:500 IF/ICC: 1:50-1:500
Immunogen Catalog Number: AG40783	Full Name: dolichyl pyrophosphate phosphatase 1	
	Calculated MW: 238 aa, 27 kDa	
	Observed MW: 22 kDa	

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

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

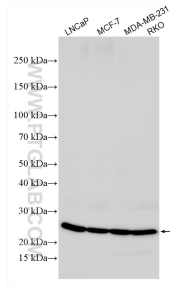
T: 4006900926

E: Proteintech-CN@ptglab.com

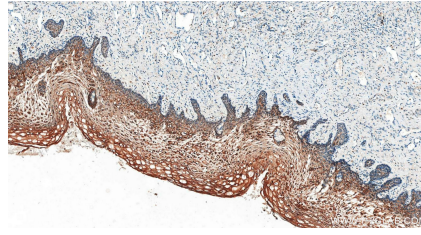
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

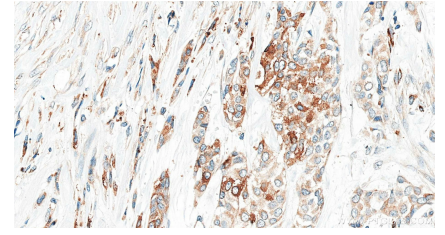
Selected Validation Data



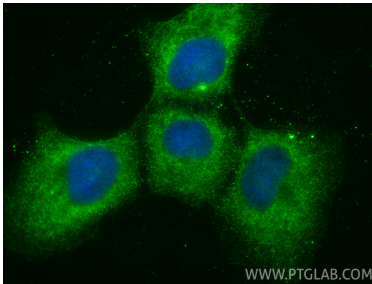
Various lysates were subjected to SDS PAGE followed by western blot with 34200-1-AP (DOLPP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



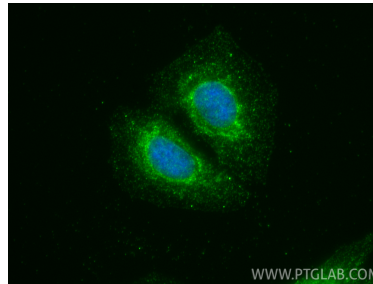
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 34200-1-AP (DOLPP1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).