For Research Use Only

ERP29 Polyclonal antibody

Catalog Number:24344-1-AP 2 Publications

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Basic Information

Catalog Number:
24344-1-AP

Size:
150ul , Concentration: 350 ug/ml by Nanodrop and 213 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG19451

GenBank Accession Number:
BC101495

GeneID (NCBI):
10961

UNIPROT ID:
P30040

Full Name:
endoplasmic reticulum protein 29

Calculated MW:
261 aa, 29 kDa

Observed MW:
29 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF-P 1:50-1:500
IF/ICC 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:
WB, CoIP, IF

Species Specificity:
human, mouse, rat

Cited Species:
mouse

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 : L02 cells, HEK-293 cells, mouse kidney tissue, mouse liver tissue, mouse lung tissue, rat testis tissue

IP : mouse liver tissue,

IHC : human liver cancer tissue, human breast cancer tissue, human pancreas tissue

IF-P : human liver cancer tissue,

IF/ICC : HeLa cells,

Background Information

Endoplasmic reticulum resident protein 29 (ERP29) is a 29-kDa endoplasmic reticulum (ER) luminal protein. Structurally ERp29 is related to protein disulfide isomerases (PDI). However, it lacks the thioredoxin motif, suggesting that this protein does not function as a disulfide isomerase (PMID: 15500441). ERP29 plays an important role in the processing of secretory proteins within the (ER), possibly by participating in the folding of proteins in the ER. The secretion of thyroglobulin (TG) was found to be strongly regulated by ERP29 (PMID: 16380091).

Notable Publications

Author	Pubmed ID	Journal	Application
Ya Hui	36302455	Metabolism	WB,IF,CoIP
Jiaxiu Li	36936785	iScience	WB

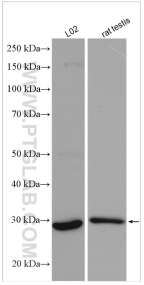
Storage

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

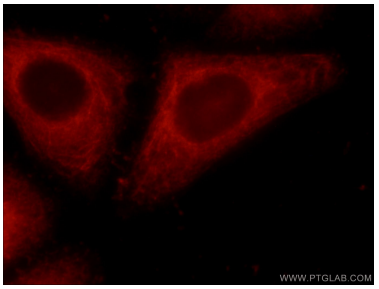
***** 20ul sizes contain 0.1% BSA**

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

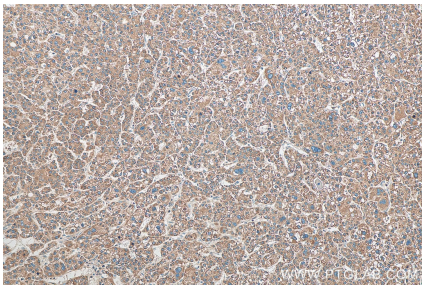
Selected Validation Data



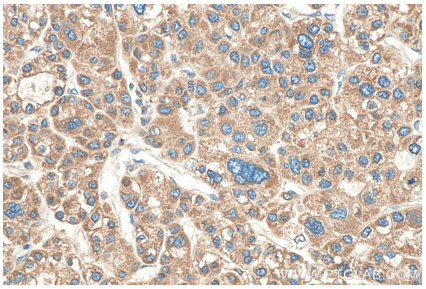
Various lysates were subjected to SDS PAGE followed by western blot with 24344-1-AP (ERP29 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



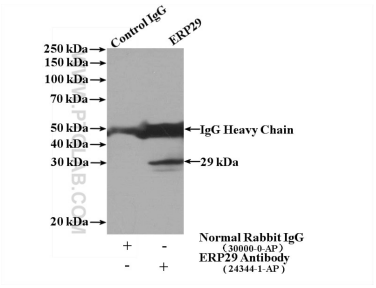
Immunofluorescent analysis of HeLa cells using 24344-1-AP (ERP29 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



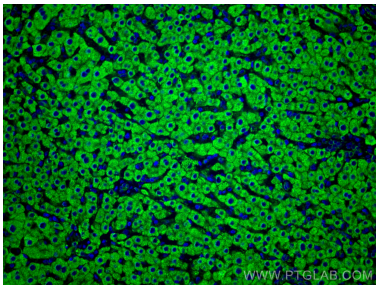
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 24344-1-AP (ERP29 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



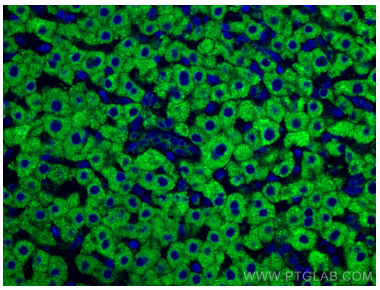
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 24344-1-AP (ERP29 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ERP29 (IP:24344-1-AP, 4ug; Detection:24344-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using ERP29 antibody (24344-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using ERP29 antibody (24344-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).