

For Research Use Only

TCIRG1 Polyclonal antibody

Catalog Number: 12649-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

12649-1-AP

Concentration:

450 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3378

GenBank Accession Number:

BC018133

GeneID (NCBI):

10312

UNIPROT ID:

Q13488

Full Name:

T-cell, immune regulator 1, ATPase,
H⁺ transporting, lysosomal V0 subunit
A3

Calculated MW:

830 aa, 93 kDa

Observed MW:

92 kDa, 65-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, pig

Positive Controls:

WB : HL-60 cells, U-937 cells, A431 cells, HuH-7 cells,
SKOV-3 cells

IHC : human stomach tissue,

IF/ICC : HepG2 cells,

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

Background Information

TCIRG1, also known as V ATPase 116 kDa isoform a3, TIRC7, OPTB1, belongs to the V-ATPase 116 kDa subunit family, TCIRG1 seems to be directly involved in T-cell activation (PubMed:10329006). Alternative splicing results in multiple transcript variants. Isoform long is highly expressed in osteoclastomas. Isoform short is highly expressed in thymus (PMID: 15809087, 24753205). Mutations in TCIRG1 are associated with Osteopetrosis, autosomal recessive 1 (OPTB1) (PMID: 11532986).

Notable Publications

Author	Pubmed ID	Journal	Application
Chao Xu	36230507	Cancers (Basel)	IHC, WB
Enrica Balza	34796694	Cancer Med	IF
Enrica Balza	28978047	Oncotarget	IHC

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:

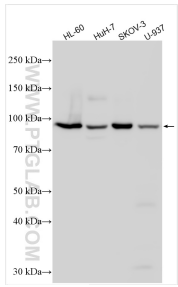
T: 4006900926

E: Proteintech-CN@ptglab.com

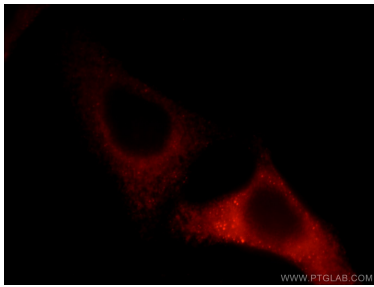
W: ptgcn.com

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

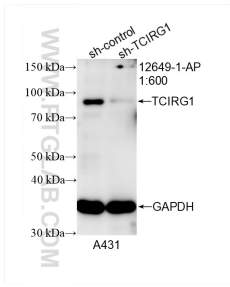
Selected Validation Data



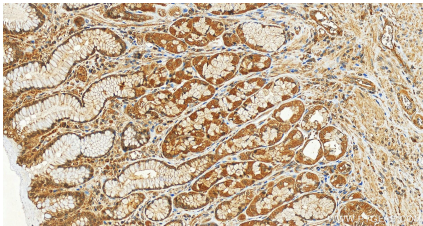
Various lysates were subjected to SDS PAGE followed by western blot with 12649-1-AP (TCIRG1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



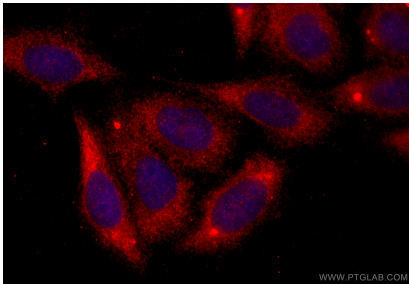
Immunofluorescent analysis of HepG2 cells, using TCIRG1 antibody 12649-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



WB result of TCIRG1 antibody (12649-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-TCIRG1 transfected A431 cells.



Immunohistochemical analysis of paraffin-embedded human normal stomach slide using 12649-1-AP (TCIRG1 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 Ethanol) fixed HepG2 cells using TCIRG1 antibody (12649-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).