

For Research Use Only

# TCIRG1 Polyclonal antibody

Catalog Number: 12649-1-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

12649-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### 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<sup>+</sup> transporting, lysosomal VO 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

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

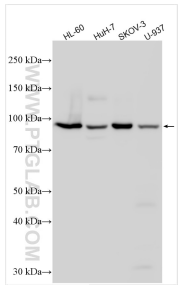
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

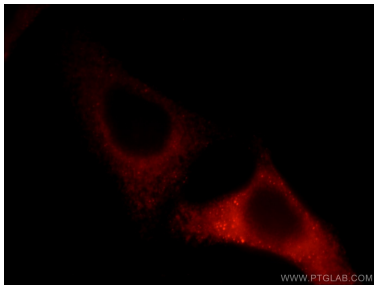
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

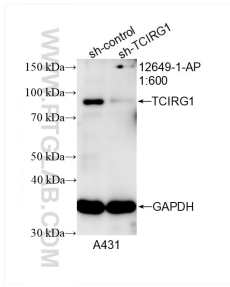
Selected Validation Data



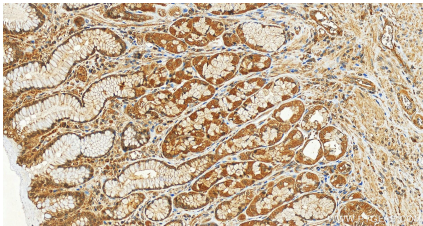
Various lysates were subjected to SDS PAGE followed by western blot with 12649-1-AP (TCIRG1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



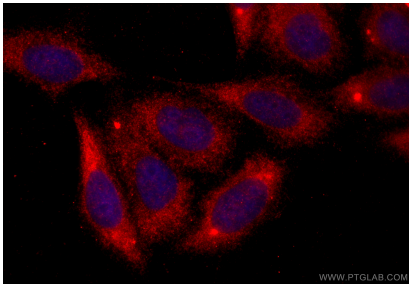
Immunofluorescent analysis of HepG2 cells, using TCIRG1 antibody 12649-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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).