

For Research Use Only

# TCIRG1 Polyclonal antibody, PBS Only

Catalog Number: 12649-1-PBS

Featured Product



## Basic Information

**Catalog Number:**

12649-1-PBS

**Size:**

100ug, Concentration: 1 mg/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

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**

human

## 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).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

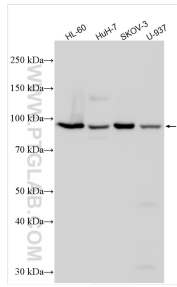
For technical support and original validation data for this product please contact:

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

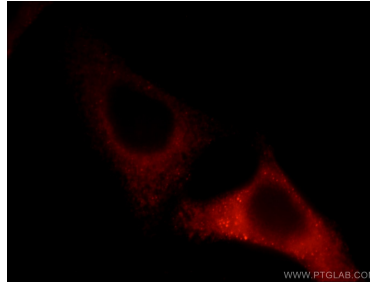
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

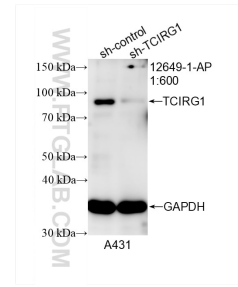
## Selected Validation Data



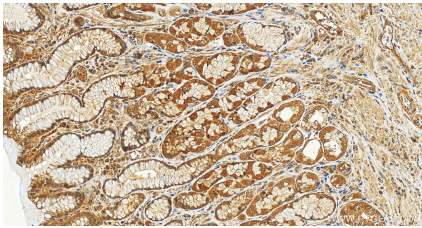
Various lysates were subjected to SDS PAGE followed by western blot with 12649-1-AP (TCIRG1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12649-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of HepG2 cells, using TCIRG1 antibody 12649-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). This data was developed using the same antibody clone with 12649-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 12649-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 12649-1-PBS in a different storage buffer formulation.