

For Research Use Only

# ERGIC-53 Polyclonal antibody

Catalog Number: 13364-1-AP

Featured Product

21 Publications



## Basic Information

<b>Catalog Number:</b> 13364-1-AP	<b>GenBank Accession Number:</b> BC032330	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3998	<b>Recommended Dilutions:</b> WB 1:20000-1:100000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Source:</b> Rabbit	<b>Full Name:</b> lectin, mannose-binding, 1	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 510 aa, 54 kDa	<b>IF 1:200-1:800</b>
<b>Immunogen Catalog Number:</b> AG4183	<b>Observed MW:</b> 54 kDa	

## Applications

### Tested Applications:

IF, IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse, monkey, pig

**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:** HEK-293 cells, mouse brain tissue, human brain tissue, HeLa cells, HepG2 cells, Jurkat cells, MCF-7 cells, mouse heart tissue, mouse spleen tissue, rat heart tissue, rat spleen tissue

**IP:** HepG2 cells,

**IHC:** human stomach cancer tissue,

**IF:** A549 cells,

## Background Information

ERGIC-53 (also known as LMAN1 or MR60) is a membrane mannose-specific lectin that selectively transports its cargo proteins from ER to ER-Golgi intermediate compartment (ERGIC) and Golgi, functioning as a cargo transport receptor for glycoproteins (PMID: 24664723; 10559958). Mutations in ERGIC-53 cause combined deficiency of coagulation factors V and VIII (PMID: 9546392).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wyatt Henke	36324807	Res Sq	IF
Sithumini M W Lokupathirage	34836987	Sci Rep	IF
Wyatt Henke	36403071	Retrovirology	IF

## 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

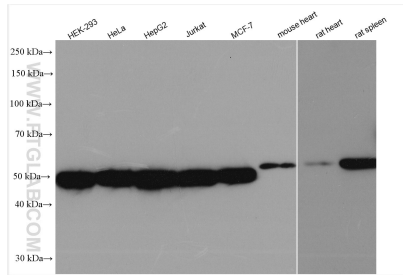
For technical support and original validation data for this product please contact:

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

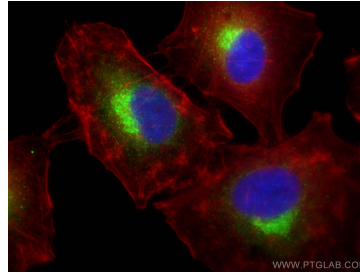
E: proteintech@ptglab.com  
W: ptglab.com

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

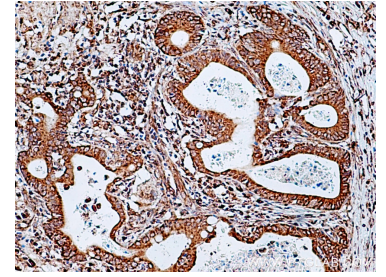
## Selected Validation Data



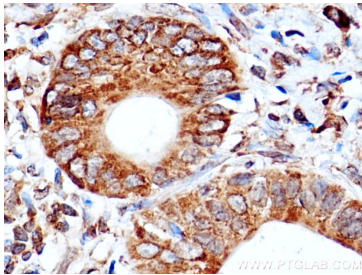
Various lysates were subjected to SDS PAGE followed by western blot with 13364-1-AP (ERGIC-53 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



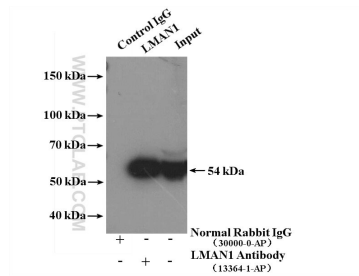
Immunofluorescent analysis of (4% PFA) fixed A549 cells using ERGIC-53 antibody (13364-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 13364-1-AP (ERGIC-53 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 stomach cancer tissue slide using 13364-1-AP (ERGIC-53 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ERGIC-53 (IP:13364-1-AP, 4ug; Detection:13364-1-AP 1:400) with HepG2 cells lysate 1000 ug.