

For Research Use Only

# ERGIC-53 Polyclonal antibody

Catalog Number:13364-1-AP

Featured Product

25 Publications



## Basic Information

### Catalog Number:

13364-1-AP

### Size:

150ul , Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4183

### GenBank Accession Number:

BC032330

### GeneID (NCBI):

3998

### UNIPROT ID:

P49257

### Full Name:

lectin, mannose-binding, 1

### Calculated MW:

510 aa, 54 kDa

### Observed MW:

54 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:20000-1:100000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, monkey

**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/ICC** : 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

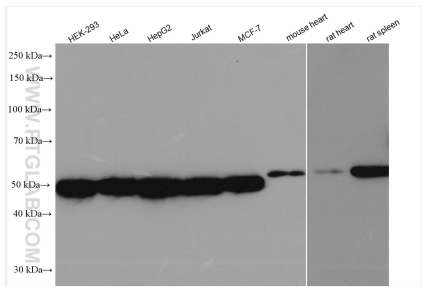
For technical support and original validation data for this product please contact:

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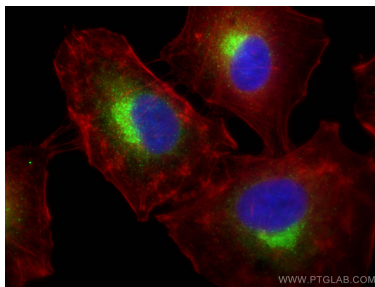
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

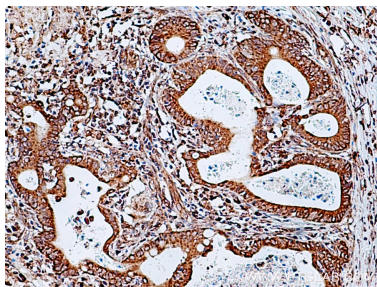
Selected Validation Data



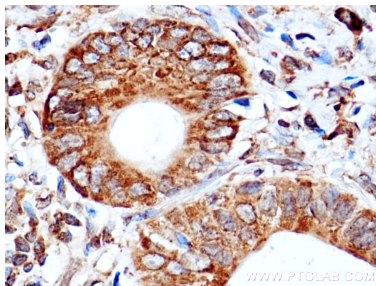
Various lysates were subjected to SDS PAGE followed by western blot with 13364-1-AP (ERGIC-53 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



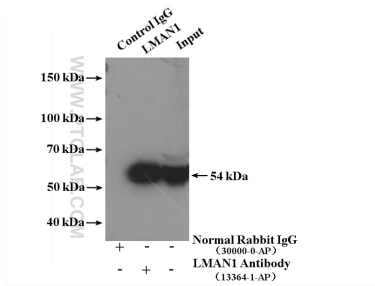
Immunofluorescent analysis of (4% PFA) fixed A549 cells using ERGIC-53 antibody (13364-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



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.