

For Research Use Only

# MLN64 Polyclonal antibody

Catalog Number: 20292-1-AP

Featured Product

1 Publications



## Basic Information

**Catalog Number:**

20292-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG14061

**GenBank Accession Number:**

BC008747

**GeneID (NCBI):**

10948

**UNIPROT ID:**

Q14849

**Full Name:**

StAR-related lipid transfer (START) domain containing 3

**Calculated MW:**

445 aa, 51 kDa

**Observed MW:**

33-53 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

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

IHC 1:20-1:200

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human

**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:** MCF7 cells, mouse placenta tissue, MCF-7 cells, A549 cells, Jurkat cells, mouse brain tissue, rat brain tissue

**IP:** MCF-7 cells,

**IHC:** human ovary tumor tissue,

**IF:** MCF-7 cells,

## Background Information

MLN64 (also known as STARD3) is an integral membrane protein anchored in late endosomes. MLN64 has a StAR-related lipid-transfer (START) domain to bind cholesterol, mediating intracellular cholesterol transfer. MLN64 is widely expressed in multiple tissues including liver, spleen, heart, kidney, lung, and the brain. Higher expression of MLN64 has been found in several malignancies. MLN64 can be detected as 33 kDa truncated fragment (PMID:9237999, PMID:15718238).

## Notable Publications

Author	Pubmed ID	Journal	Application
Rui Liu	24905460	Autophagy	WB

## 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:

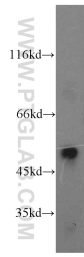
T: 4006900926

E: Proteintech-CN@ptglab.com

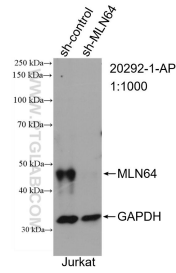
W: ptgcn.com

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

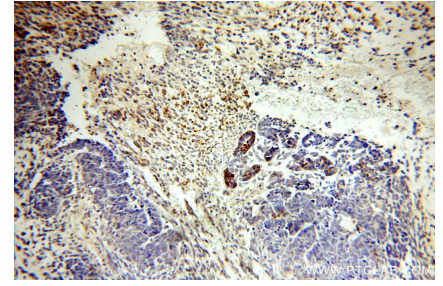
## Selected Validation Data



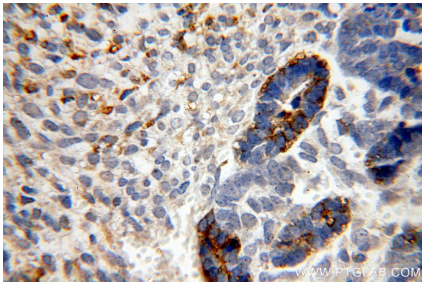
MCF7 cells were subjected to SDS PAGE followed by western blot with 20292-1-AP (MLN64 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



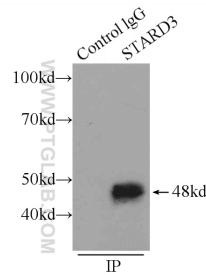
WB result of MLN64 antibody (20292-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MLN64 transfected Jurkat cells.



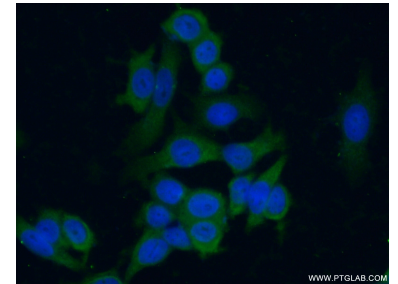
Immunohistochemical analysis of paraffin-embedded human ovary tumor using 20292-1-AP (MLN64 antibody) at dilution of 1:200 (under 10x lens).



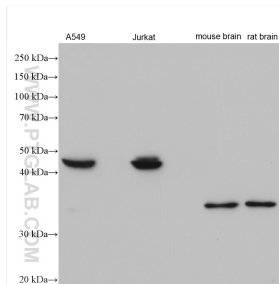
Immunohistochemical analysis of paraffin-embedded human ovary tumor using 20292-1-AP (MLN64 antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-MLN64 (IP:20292-1-AP, 3ug; Detection:20292-1-AP 1:500) with MCF-7 cells lysate 1200ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 20292-1-AP (MLN64 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 20292-1-AP (MLN64 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.