

## Anti-ATG101 Rabbit pAb



WL02760

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

|                            |                        |               |
|----------------------------|------------------------|---------------|
| <b>Product name</b>        | Anti-ATG101 Rabbit pAb |               |
| <b>Source</b>              | Rabbit                 |               |
| <b>Species reactivity</b>  | Human, Mouse, Rat      |               |
| <b>Tested applications</b> | WB                     | 1:1000-1:2000 |
|                            | IHC                    | 1:100-1:400   |
|                            | IF                     | 1:500         |

**Cellular localization** Cytoplasm

**Pack size** 50/100/200/500/1000μl

**Storage** Store at -20°C. **Avoid freeze/thaw cycles.**

**Storage buffer** Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μg/ml

BSA, 50% glycerol and less than 0.02% sodium azide

## General Information

**Background** ATG101 is a newly found important autophagy related protein, among many other proteins responsible for autophagy, a process well conserved among most eukaryotic organisms. However, ATG101 is not homologous to any of the other ATG proteins. ATG101 interacts with essential autophagy protein ATG13 in mammals, which is a ULK1 interacting protein. ATG101 is suggested to protect ATG13 from proteasomal degradation, therefore stabilizing levels of ATG13 found in cells and regulating levels of macroautophagy. Phagophores are responsible for recognizing and surrounding materials that are to be degraded in the lysosome, by forming a membrane that completely surrounds the materials to be degraded.

**Immunogen** Polyclonal antibody is produced by immunizing animals with a synthetic peptide of ATG101.

**Purification** Polyclonal antibody was purified by Protein A affinity chromatography.

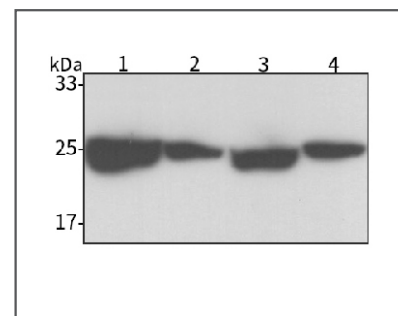
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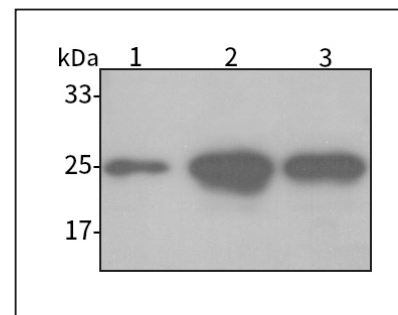
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## Product Images



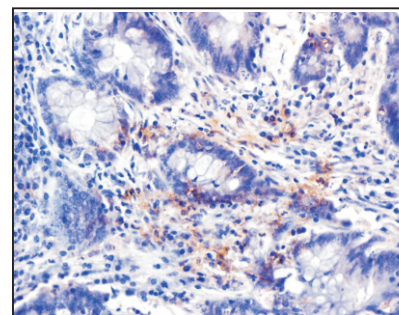
## Western blot-Anti-ATG101 pAb

Lane 1: Human MCF-7 cell lysate  
 Lane 2: Human Hep-G2 cell lysate  
 Lane 3: Human A549 cell lysate  
 Lane 4: Human Hela cell lysate  
 All lanes: Anti-ATG101 at 1:1000 dilution  
 Lysates/proteins at 20-50 μg per lane.  
 Predicted band size: 25 kDa  
 Observed band size: 25 kDa



## Western blot-Anti-ATG101 pAb

Lane 1: Mouse kidney tissue lysate  
 Lane 2: Rat lung tissue lysate  
 Lane 3: Rat liver tissue lysate  
 All lanes: Anti-ATG101 at 1:1000 dilution  
 Lysates/proteins at 20-50 μg per lane.  
 Predicted band size: 25 kDa  
 Observed band size: 25 kDa



## Immunohistochemistry-Anti-ATG101 pAb

Immunohistochemical analysis of paraffin-embedded human colon cancer using anti-ATG101 Rabbit Antibody at 1:200 dilution.  
 Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

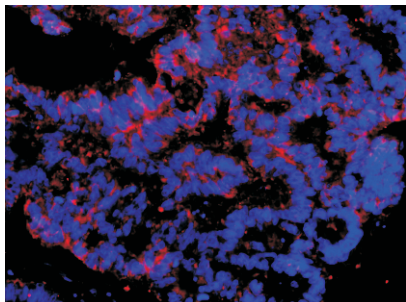
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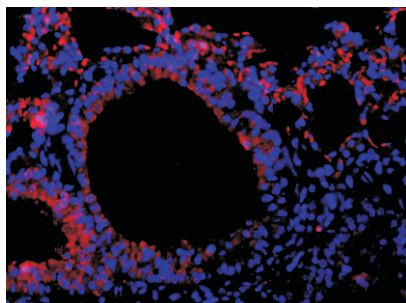
### Product Information



#### Immunofluorescence-Anti-ATG101 pAb

Immunofluorescence analysis of paraffin-embedded human colon cancer using anti-ATG101 Rabbit Antibody at 1:500 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-ATG101 pAb

Immunofluorescence analysis of paraffin-embedded mouse lung using anti-ATG101 Rabbit Antibody at 1:500 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0