

## Anti-TSG101 Rabbit Monoclonal Antibody Catalog # ABO13857

### Specification

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#### Anti-TSG101 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC, FC
Primary Accession	<a href="#">Q99816</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-TSG101 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

#### Anti-TSG101 Rabbit Monoclonal Antibody - Additional Information

**Gene ID** 7251

#### Other Names

Tumor susceptibility gene 101 protein, ESCRT-I complex subunit TSG101, TSG101

#### Calculated MW

43944 MW KDa

#### Application Details

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>FC 1:50

#### Subcellular Localization

Cytoplasm. Membrane; Peripheral membrane protein. Nucleus. Late endosome membrane; Peripheral membrane protein. Mainly cytoplasmic. Membrane-associated when active and soluble when inactive. Depending on the stage of the cell cycle, detected in the nucleus. Colocalized with CEP55 in the midbody during cytokinesis.

#### Tissue Specificity

Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas.

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human TSG101

#### Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term

**storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## **Anti-TSG101 Rabbit Monoclonal Antibody - Protein Information**

**Name** TSG101

### **Function**

Component of the ESCRT-I complex, a regulator of vesicular trafficking process. Binds to ubiquitinated cargo proteins and is required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies (MVBs). Mediates the association between the ESCRT-0 and ESCRT-I complex. Required for completion of cytokinesis; the function requires CEP55. May be involved in cell growth and differentiation. Acts as a negative growth regulator. Involved in the budding of many viruses through an interaction with viral proteins that contain a late-budding motif P-[ST]-A-P. This interaction is essential for viral particle budding of numerous retroviruses. Required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:<a href="http://www.uniprot.org/citations/22660413" target="\_blank">22660413</a>). It may also play a role in the extracellular release of microvesicles that differ from the exosomes (PubMed:<a href="http://www.uniprot.org/citations/22315426" target="\_blank">22315426</a>).

### **Cellular Location**

Cytoplasm. Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Late endosome membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Midbody, Midbody ring. Nucleus. Note=Mainly cytoplasmic. Membrane-associated when active and soluble when inactive. Nuclear localization is cell cycle-dependent. Interaction with CEP55 is required for localization to the midbody during cytokinesis

### **Tissue Location**

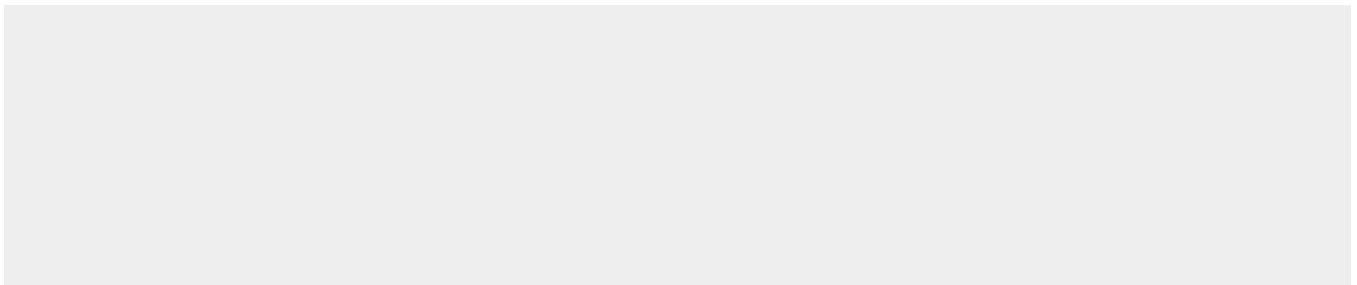
Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas

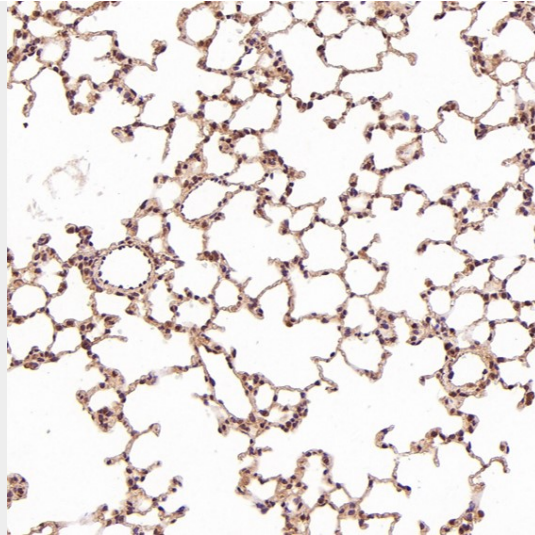
## **Anti-TSG101 Rabbit Monoclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

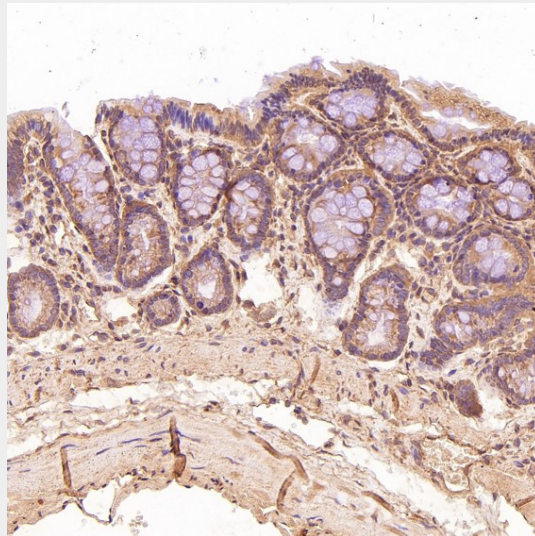
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Anti-TSG101 Rabbit Monoclonal Antibody - Images**

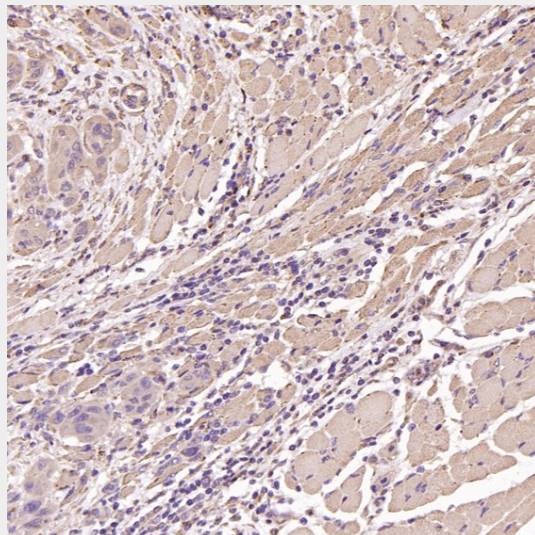




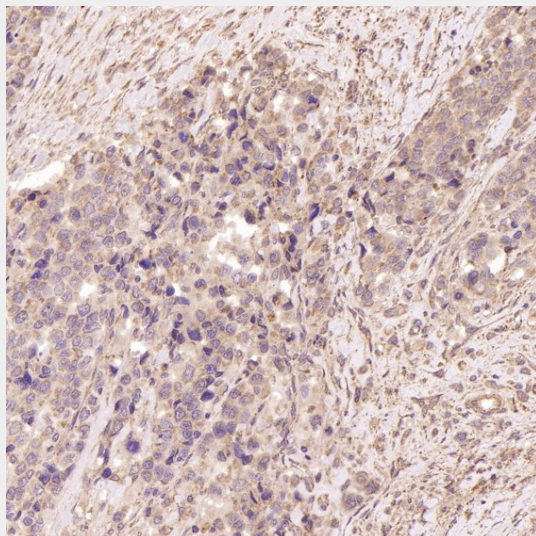
Immunohistochemical analysis of paraffin-embedded Rat liver, using the Antibody at 1:500 dilution.



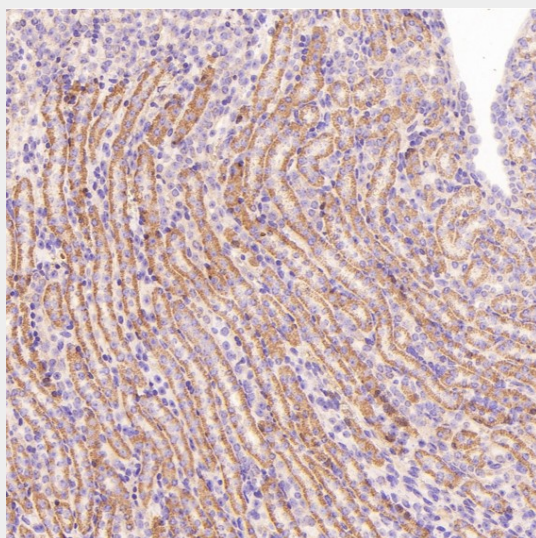
Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:500 dilution.



Immunohistochemical analysis of paraffin-embedded Human tongue cancer, using the Antibody at 1:250 dilution.



Immunohistochemical analysis of paraffin-embedded Human prostate cancer, using the Antibody at 1:1000 dilution.



Immunohistochemical analysis of paraffin-embedded Mouse kidney, using the Antibody at 1:1000 dilution.

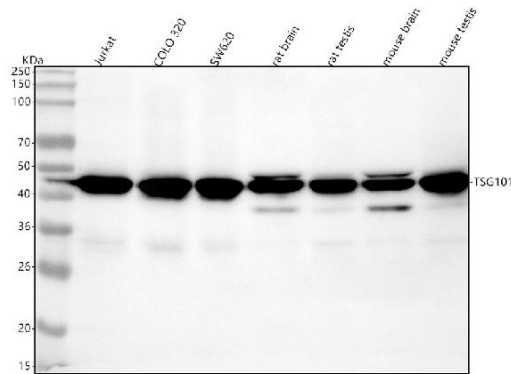


Figure 1. Western blot analysis of TSG101 using anti-TSG101 antibody (M01233).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

- Lane 1: human Jurkat whole cell lysates,
- Lane 2: human COLO320 whole cell lysates,
- Lane 3: human SW620 whole cell lysates,
- Lane 4: rat brain tissue lysates,
- Lane 5: rat testis tissue lysates,
- Lane 6: mouse brain tissue lysates,
- Lane 7: mouse testis tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TSG101 antigen affinity purified monoclonal antibody (Catalog # M01233) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TSG101 at approximately 44 kDa. The expected band size for TSG101 is at 44 kDa.