abcam

Product datasheet

# Anti-TSG101 antibody ab225877

3 References 1 Image

## Overview

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|---|---|
| **Product name** | Anti-TSG101 antibody |
| **Description** | Rabbit polyclonal to TSG101 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Human<br>**Predicted to work with:** Rabbit, Horse, Chicken, Cow, Dog, Pig, Xenopus laevis, Chimpanzee, Orangutan, Xenopus tropicalis |
| **Immunogen** | Synthetic peptide within Human TSG101 aa 225-275. The exact sequence is proprietary. (NP_006283.1).<br>Database link: **Q99816** |
| **Positive control** | WB: HeLa, HEK-293T and Jurkat whole cell lysate (**ab7899**). |
| **General notes** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 6.8<br>Preservative: 0.09% Sodium azide<br>Constituents: 0.1% BSA, Tris buffered saline |
| **Purity** | Immunogen affinity purified |
| **Purification notes** | ab225877 was affinity purified using an epitope specific to TSG101 immobilized on solid support. |
| **Clonality** | Polyclonal |

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|---|---|
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab225877 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **WB** | | 1/2000 - 1/10000. Predicted molecular weight: 44 kDa. |

## Target

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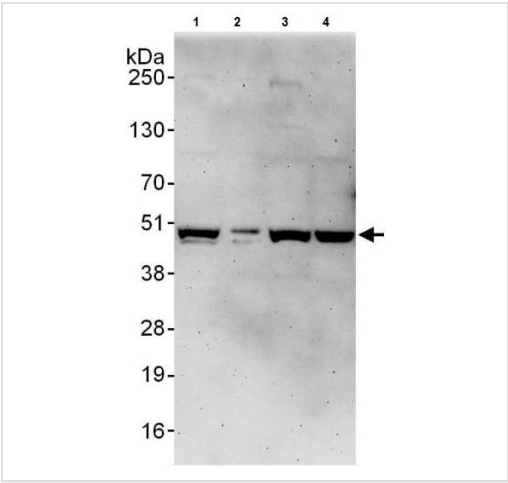
|---|---|
| **Function** | Component of the ESCRT-I complex, a regulator of vesicular trafficking process. Binds to ubiquitinated cargo proteins and is required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies (MVBs). Mediates the association between the ESCRT-0 and ESCRT-I 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. |
| **Tissue specificity** | Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas. |
| **Sequence similarities** | Belongs to the ubiquitin-conjugating enzyme family. UEV subfamily.<br>Contains 1 SB (steadiness box) domain.<br>Contains 1 UEV (ubiquitin E2 variant) domain. |
| **Domain** | The UEV domain is required for the interaction of the complex with ubiquitin. It also mediates the interaction with PTAP/PSAP motifs of HIV-1 P6 protein and human spumaretrovirus Gag protein. The coiled coil domain may interact with stathmin.<br>The UEV domain binds ubiquitin and P-[ST]-A-P peptide motif independently. |
| **Post-translational modifications** | Monoubiquitinated at multiple sites by LRSAM1 and by MGRN1. Ubiquitination inactivates it, possibly by regulating its shuttling between an active membrane-bound protein and an inactive soluble form. Ubiquitination by MGRN1 requires the presence of UBE2D1. |
| **Cellular localization** | Cytoplasm. Membrane. Nucleus. Late endosome membrane. 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. |

## Images




Western blot - Anti-TSG101 antibody (ab225877)

**All lanes :** Anti-TSG101 antibody (ab225877) at 0.04 µg/ml

**Lane 1 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 50 µg
**Lane 2 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 15 µg
**Lane 3 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 50 µg
**Lane 4 :** Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate at 50 µg

Developed using the ECL technique.

**Predicted band size:** 44 kDa

**Exposure time:** 3 minutes



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