

## Product datasheet

# Anti-TSG101 antibody [4A10] - BSA and Azide free ab83

★★★★★ 3 Abreviews 217 References 画像数 11

### 製品の概要

<b>製品名</b>	Anti-TSG101 antibody [4A10] - BSA and Azide free
<b>製品の詳細</b>	Mouse monoclonal [4A10] to TSG101 - BSA and Azide free
<b>由来種</b>	Mouse
<b>特異性</b>	This antibody recognizes the TSG-101 protein, the product of a recently identified tumor susceptibility gene the inactivation of which in mouse fibroblasts results in cell transformation and the ability of those cells to form tumors in nude mice.
<b>アプリケーション</b>	<b>適用あり:</b> Flow Cyt, WB, IHC-P
<b>種交差性</b>	<b>交差種:</b> Mouse, Human
<b>免疫原</b>	Recombinant fragment within Human TSG101 aa 150 to the C-terminus. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <a href="#">contact</a> our Scientific Support team to discuss your requirements. Expressed in E.coli Database link: <a href="#">Q99816</a>
<b>ポジティブ・コントロール</b>	WB: Neuro-2a, C8D30, NIH/3T3, RAW 264.7, C2C12, HeLa, HepG2, A431, K562 and THP-1 whole cell lysate, mouse testis. ICC/IF: Amyloid peptide-treated mouse astrocytes IHC-P: human ovarian cancer tissue, human breast carcinoma tissue. Flow cyt: THP-1 cells
<b>特記事項</b>	<p>This product was changed from ascites to tissue culture supernatant on 12th February 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>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.</p> <p>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&amp;As</p>

### 製品の特性

<b>製品の状態</b>	Liquid
<b>保存方法</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

バッファー	pH: 7.40 Constituent: 100% PBS  w/o preservative
キャリア・フリー	はい
精製度	Protein G purified
特記事項 (精製)	Purified from tissue culture supernatant by Protein G chromatography to at least 95% homogeneity as determined by SDS-PAGE.
ポリ/モノ	モノクローナル
クローン名	4A10
ミエローマ	NS1
アイソタイプ	IgG1
軽鎖の種類	kappa

## アプリケーション

**The Abpromise guarantee** [Abpromise保証は](#)、次のテスト済みアプリケーションにおけるab83の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt		Use at an assay dependent concentration. <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (3)	1/500 - 1/3000. Detects a band of approximately 47 kDa (predicted molecular weight: 43 kDa).
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## ターゲット情報

機能	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.
組織特異性	Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas.
配列類似性	Belongs to the ubiquitin-conjugating enzyme family. UEV subfamily. Contains 1 SB (steadiness box) domain. Contains 1 UEV (ubiquitin E2 variant) domain.
ドメイン	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. The UEV domain binds ubiquitin and P-[ST]-A-P peptide motif independently.

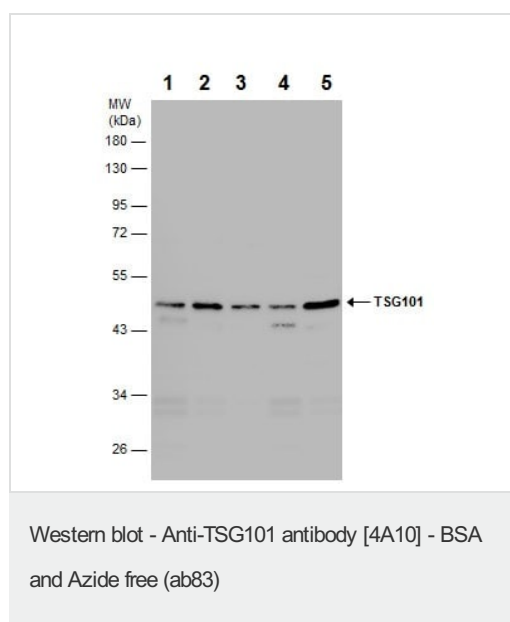
## 翻訳後修飾

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.

## 細胞内局在

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.

## 画像



**All lanes :** Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83) at 1/500 dilution

**Lane 1 :** Neuro-2a (Mouse neuroblastoma cell line) whole cell lysate

**Lane 2 :** C8D30 whole cell lysate

**Lane 3 :** NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate

**Lane 4 :** RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

**Lane 5 :** C2C12 (mouse myoblast cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

### Secondary

**All lanes :** HRP-conjugated anti-mouse IgG antibody at 1/500 dilution

**Predicted band size:** 43 kDa

10% SDS PAGE

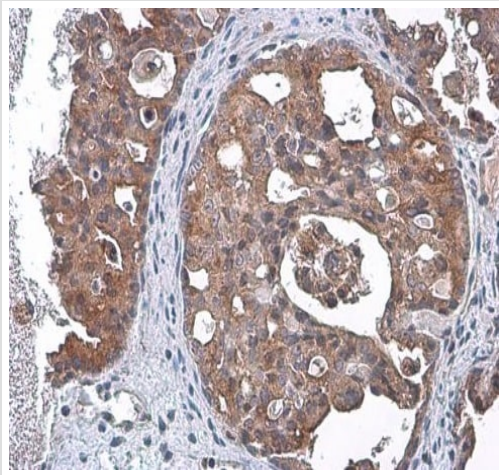
**Running conditions:** 80V for 15min then 140V for 40min

**Blocking:** 5% non-fat milk in TBST at room temperature for 60min.

**Washing conditions:** 5 ml TBST, 4 x 5min

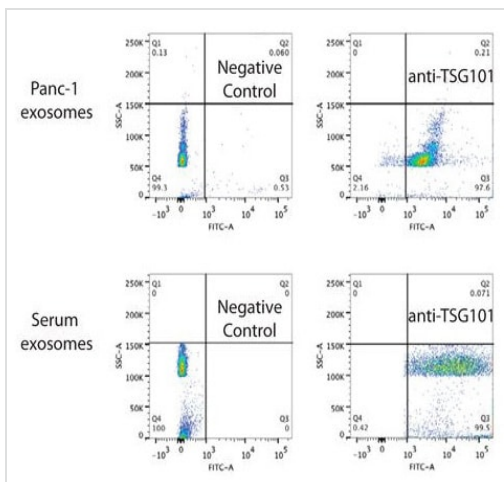
**Transfer conditions:** Semi-dry, 18 V, 60min (NC membrane)

**Exposure system:** Trident plus Western HRP Substrate



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissue labeling TSG101 with ab83 at 1/100 dilution. Cytoplasmic staining is observed. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min. (Cuisinart Electric Pressure Cooker #EPC-1200, choose "high pressure"). Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, RT, 30min. Blocking condition: 1.5% goat serum (dilute goat serum by 1xPBS), RT, 30min. Primary antibody incubation: 4°C overnight. Secondary antibody incubation: HRP Kit (Mouse IgG), 1:200, RT, 30min. Washing: PBS, 2 x 5 minutes. DAB detection.

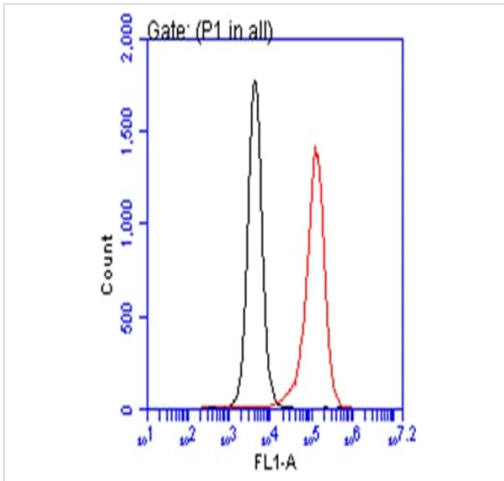


Flow Cytometry - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

Image from Kahlert C et al., J Biol Chem. 2014;289(7):3869-75. Fig 1(C); doi: 10.1074/jbc.C113.532267.

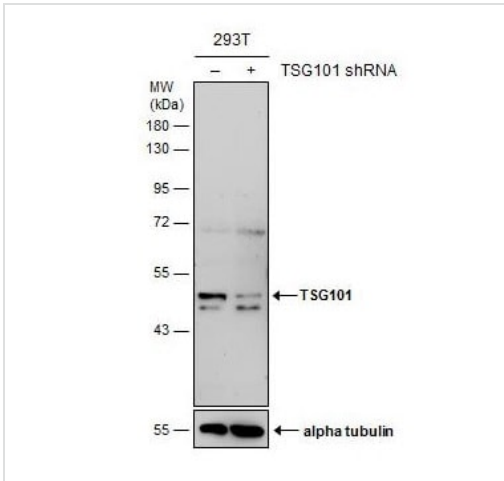
Panc-1 and Serum Exosomes were characterized by the exosome-specific expression of TSG101 by FACS analysis.

Exosomes were attached to 4- $\mu$ m aldehyde/sulfate latex beads by mixing ~30  $\mu$ g of exosomes in a 100- $\mu$ l volume of beads for 2 hours at room temperature. This suspension was diluted to 1 ml with PBS, and the reaction was stopped with 100 mM glycine and 2% BSA in PBS. Exosome-bound beads were washed in PBS/1% BSA, blocked with 10% BSA, and stained for FACS with anti-TSG101 (1:400, ab83). An Alexa Fluor® 488 conjugated anti-mouse IgG was used as the secondary antibody.



Flow Cytometry - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

Flow Cytometry analysis of THP-1 cells labeling TSG101 with ab83 at 1/25 dilution (red). Unlabelled sample was used as a control (black). A Dylight 488-conjugated secondary antibody was used for FACS analysis.



Western blot - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

**All lanes** : Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83) at 1/500 dilution

**Lane 1** : Non-transfected (-) 293T whole cell extracts

**Lane 2** : TSG101 shRNA transfected (+) 293T whole cell extracts

Lysates/proteins at 30 µg per lane.

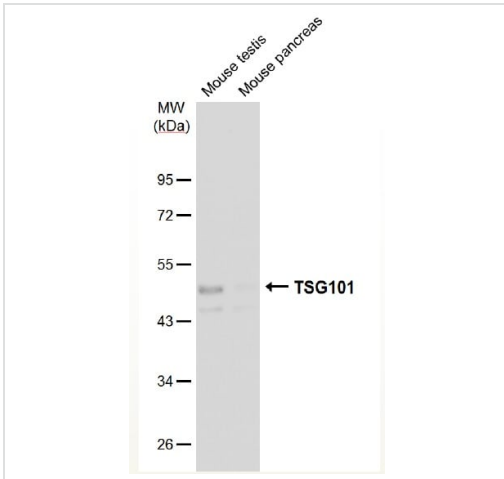
**Secondary**

**All lanes** : HRP-conjugated anti-mouse IgG antibody

Developed using the ECL technique.

**Predicted band size:** 43 kDa

10% SDS-PAGE



Western blot - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

**All lanes :** Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83) at 1/500 dilution

**Lane 1 :** Mouse testis tissue extract

**Lane 2 :** Mouse pancreas tissue extract

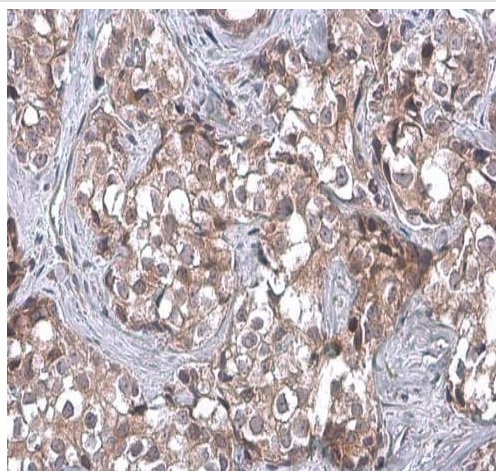
Lysates/proteins at 50 µg per lane.

**Secondary**

**All lanes :** HRP-conjugated anti-mouse IgG antibody

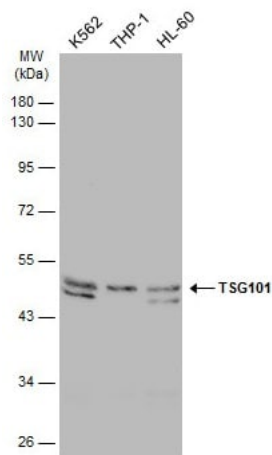
Developed using the ECL technique.

**Predicted band size:** 43 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue labeling TSG101 with ab83 at 1/100 dilution. Cytoplasmic staining is observed. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



Western blot - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

**All lanes** : Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83) at 1/500 dilution

**Lane 1** : K562 whole cell extract

**Lane 2** : THP-1 whole cell extract

**Lane 3** : HL-60 whole cell extract

Lysates/proteins at 30 µg per lane.

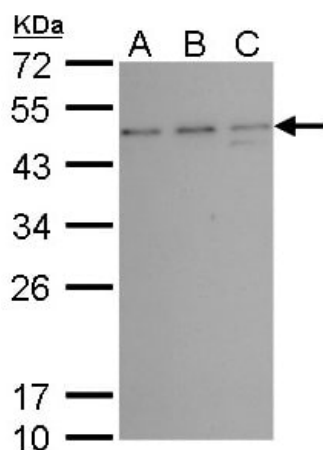
#### Secondary

**All lanes** : HRP-conjugated anti-mouse IgG antibody

Developed using the ECL technique.

**Predicted band size:** 43 kDa

10% SDS-PAGE



Western blot - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

**All lanes** : Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83) at 1/500 dilution

**Lane 1** : NIH-3T3 whole cell lysate/extract

**Lane 2** : JC (mouse mammary adenocarcinoma) whole cell lysate/extract

**Lane 3** : BCL-1 whole cell lysate/extract

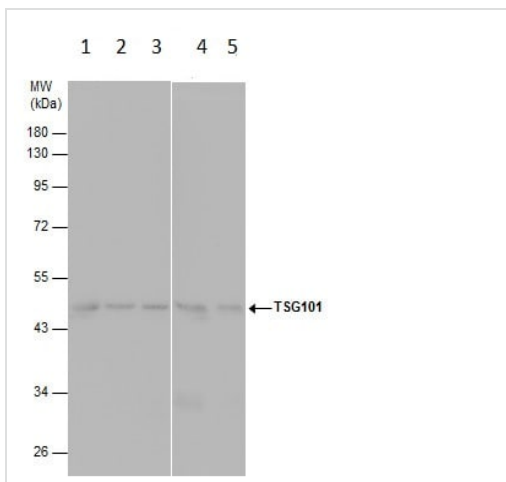
Lysates/proteins at 30 µg per lane.

#### Secondary

**All lanes** : HRP-conjugated anti-mouse IgG antibody

**Predicted band size:** 43 kDa

10% SDS-PAGE



Western blot - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

**All lanes :** Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83) at 1/500 dilution

**Lane 1 :** A431 whole cell lysate

**Lane 2 :** HeLa whole cell lysate

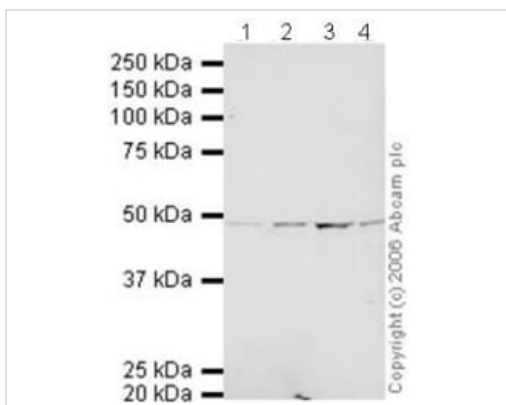
**Lane 3 :** HepG2 whole cell lysate

**Lane 4 :** K562 whole cell lysate

**Lane 5 :** THP-1 whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 43 kDa



Western blot - Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83)

**All lanes :** Anti-TSG101 antibody [4A10] - BSA and Azide free (ab83) at 1 µg/ml

**Lane 1 :** HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

**Lane 2 :** A-431 whole cell lysate ([ab7909](#))

**Lane 3 :** Jurkat whole cell lysate ([ab7899](#))

**Lane 4 :** HEK-293 whole cell lysate ([ab7902](#))

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Donkey polyclonal to Mouse IgG (IRDye™ 700DX) at 1/10000 dilution

**Predicted band size:** 43 kDa

**Observed band size:** 49 kDa

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