

## Product datasheet

# Anti-Survivin antibody [EP2880Y] ab76424

リコンビナント RabMAb®

★★★★★ 6 Abreviews 27 References 画像数 19

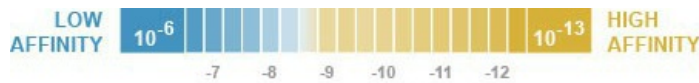
### 製品の概要

製品名	Anti-Survivin antibody [EP2880Y]
製品の詳細	Rabbit monoclonal [EP2880Y] to Survivin
由来種	Rabbit
アプリケーション	適用あり: IHC-P, WB, IP, Flow Cyt, ICC/IF, Sandwich ELISA
種交差性	交差種: Human
免疫原	Synthetic peptide within Human Survivin aa 1-100 (N terminal). The exact sequence is proprietary. Database link: <a href="#">O15392</a>
ポジティブ・コントロール	HeLa and Jurkat lysates; human urinary bladder carcinoma and human colonic adenocarcinoma tissues; A549; Ramos; Human bladder carcinoma
特記事項	<p>A trial size is available to purchase for this antibody.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a></p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p> <p>This product is a recombinant rabbit monoclonal antibody.</p>

### 製品の特性

製品の状態	Liquid
保存方法	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.
解離定数 (K <sub>D</sub> 値)	K <sub>D</sub> = 4.40 x 10 <sup>-10</sup> M





[Learn more about K<sub>D</sub>](#)

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP2880Y
アイソタイプ	IgG

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab76424** in the following tested applications.

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

アプリケーション	Abreviews	特記事項
IHC-P	★★★★★	1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Signal amplification system might be necessary or the use of polymerized HRP secondary antibodies. <b>For unpurified use at 1/250 - 1/500.</b>
WB	★★★★☆	1/5000 - 1/20000. Detects a band of approximately 16 kDa (predicted molecular weight: 16 kDa).
IP		1/150. <b>For unpurified use at 1:10.</b>
Flow Cyt		1/500. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. <b>For unpurified use at 1/50.</b>
ICC/IF	★★★★★	1/100 - 1/250.
Sandwich ELISA		Use a concentration of 0.5 µg/ml. Can be paired for Sandwich ELISA with <a href="#">Goat polyclonal to Survivin (ab27468)</a> . For sandwich ELISA, use this antibody as detection at 0.5µg/ml with <a href="#">ab27468</a> as capture.

### ターゲット情報

**機能**

Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. The complex with RAN plays a role in mitotic spindle formation by serving as a physical scaffold to help deliver the RAN effector molecule TPX2 to microtubules. May play a role in neoplasia. May counteract a default induction of apoptosis in G2/M phase. Inhibitor of caspase-3 and caspase-7. Isoform 2 and isoform 3 do not appear to play vital roles in mitosis. Isoform 3 shows a marked reduction in its anti-apoptotic

effects when compared with the displayed wild-type isoform.

#### 組織特異性

Expressed only in fetal kidney and liver, and to lesser extent, lung and brain. Abundantly expressed in adenocarcinoma (lung, pancreas, colon, breast, and prostate) and in high-grade lymphomas. Also expressed in various renal cell carcinoma cell lines.

#### 配列類似性

Belongs to the IAP family.  
Contains 1 BIR repeat.

#### 発生段階

Expression is cell cycle-dependent and peaks at mitosis.

#### ドメイン

The BIR repeat is necessary and sufficient for HBXIP binding.

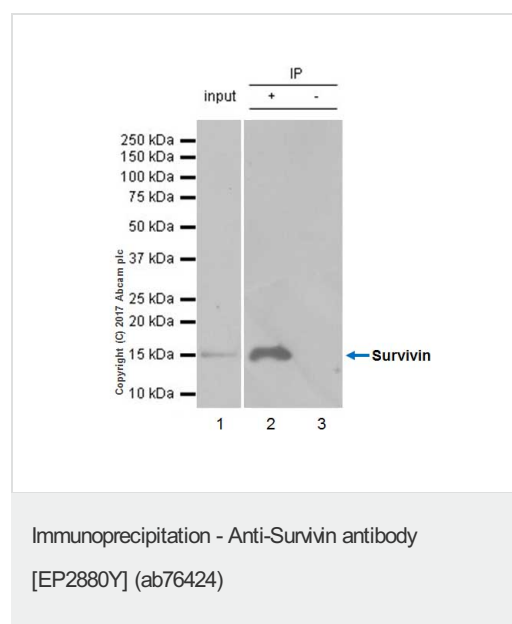
#### 翻訳後修飾

Ubiquitination is required for centrosomal targeting.  
In vitro phosphorylation at Thr-117 by AURKB/STK12 prevents interaction with INCENP and localization to mitotic chromosomes.

#### 細胞内局在

Cytoplasm. Nucleus. Chromosome. Chromosome > centromere. Cytoplasm > cytoskeleton > spindle. Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis. Colocalizes with AURKB at mitotic chromosomes.

#### 画像



ab76424 (purified) at 1:150 dilution (5µg)

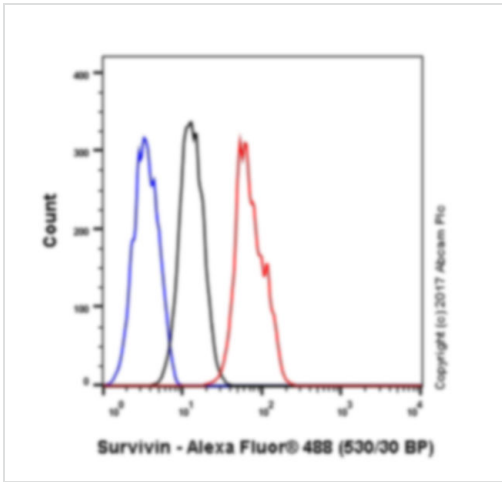
immunoprecipitating Survivin in Ramos whole cell lysate.

Lane 1 (input): Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate 10µg

Lane 2 (+): ab76424 & Ramos whole cell lysate

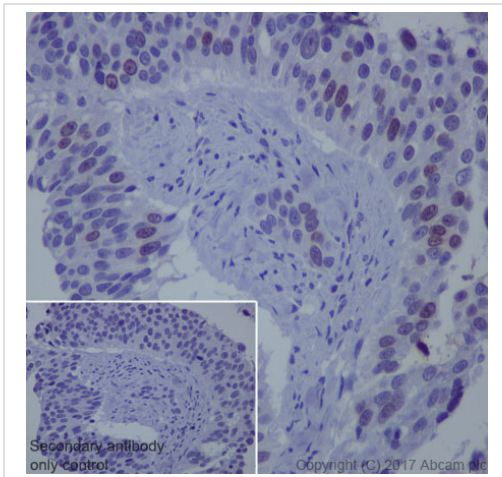
Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab76424 in Ramos whole cell lysate  
For western blotting, VeriBlot for IP secondary antibody (HRP) ([ab131366](#)) was used as the secondary antibody at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.



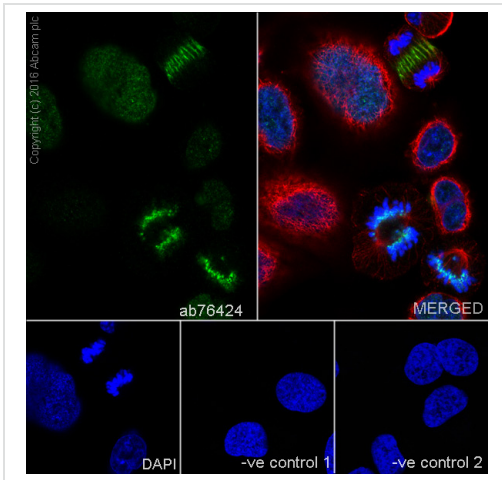
Flow Cytometry - Anti-Survivin antibody [EP2880Y] (ab76424)

Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Survivin with purified ab76424 at 1:500 dilution (5 µg/ml) (red). Cells were fixed with 80% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1:2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody [EP2880Y] (ab76424)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human bladder carcinoma tissue sections labeling Survivin with Purified ab76424 at 1:1000 dilution (2.52 µg/ml). Heat mediated antigen retrieval was performed using Perform heat mediated antigen retrieval using Tris/EDTA Buffer,PH9. Tissue was counterstained with Hematoxylin. [ab97051](#) Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1:500 dilution. PBS instead of the primary antibody was used as the negative control.

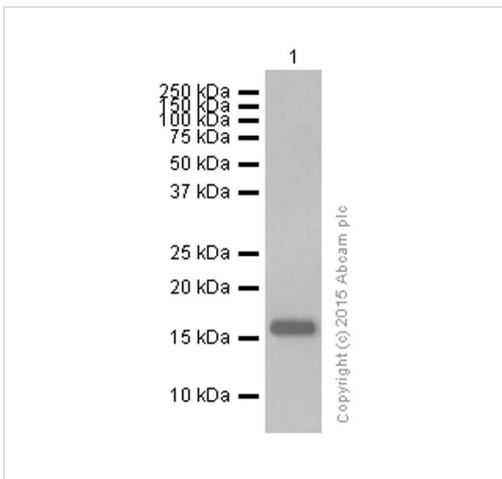


Immunocytochemistry/ Immunofluorescence - Anti-Survivin antibody [EP2880Y] (ab76424)

Immunofluorescent staining of MCF-7 cells labelling Bcl-2 with purified ab76424 at 1/1000. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. The cells were co-stained with ab7291, a mouse anti-tubulin (1/1000) using ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) as the secondary antibody. Nuclei counterstained with DAPI (blue).

Control 1: primary antibody (1/100) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



Western blot - Anti-Survivin antibody [EP2880Y] (ab76424)

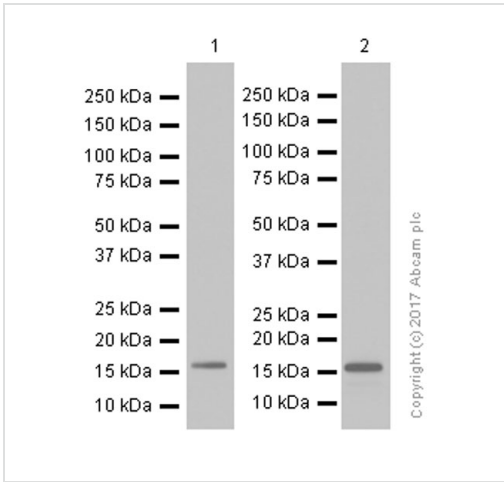
Anti-Survivin antibody [EP2880Y] (ab76424) at 1/5000 dilution (purified) + A549 (Human lung carcinoma epithelial cell) whole cell lysates at 15 µg

#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 16 kDa

Blocking and diluting buffer : 5% NFDM/TBST



Western blot - Anti-Survivin antibody [EP2880Y]  
(ab76424)

**All lanes :** Anti-Survivin antibody [EP2880Y]  
(ab76424) at 1/5000 dilution (purified)

**Lane 1 :** HeLa (Human cervix  
adenocarcinoma epithelial cell) whole cell  
lysates

**Lane 2 :** Ramos (Human Burkitt's lymphoma  
B lymphocyte) whole cell lysates

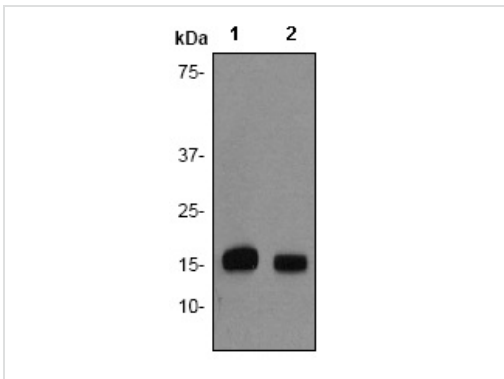
Lysates/proteins at 15 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP)  
(ab97051) at 1/20000 dilution

**Predicted band size:** 16 kDa

Blocking and diluting buffer : 5% NFDM/TBST



Western blot - Anti-Survivin antibody [EP2880Y]  
(ab76424)

**All lanes :** Anti-Survivin antibody [EP2880Y]  
(ab76424) at 1/10000 dilution (unpurified)

**Lane 1 :** HeLa lysates

**Lane 2 :** Jurkat lysates

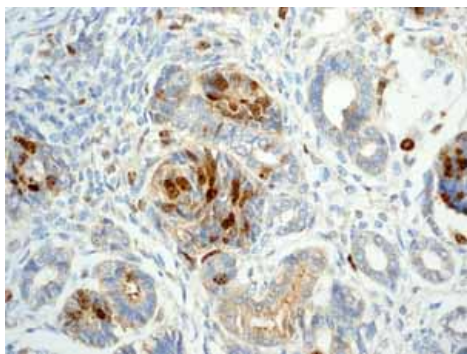
Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** goat anti-rabbit HRP at 1/1000  
dilution

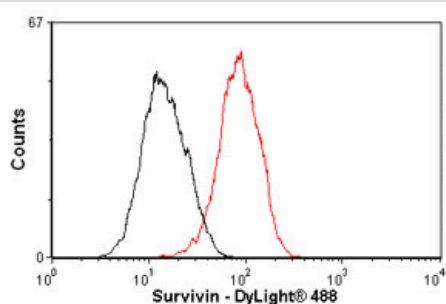
**Predicted band size:** 16 kDa

**Observed band size:** 16 kDa



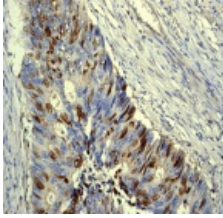
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody [EP2880Y] (ab76424)

Unpurified ab76424 showing positive staining in Fetal kidney tissue.



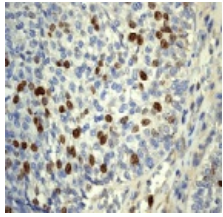
Flow Cytometry - Anti-Survivin antibody [EP2880Y] (ab76424)

Overlay histogram showing HeLa cells stained with unpurified ab76424 (red line). The cells were fixed with methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab76424, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit monoclonal IgG (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a decreased signal in HeLa cells fixed with 4% paraformaldehyde/permeabilized with 0.1% PBS-Tween 20 used under the same conditions.



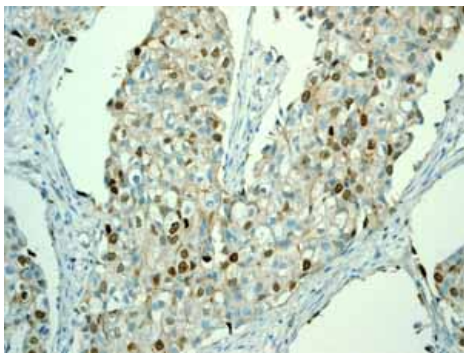
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody [EP2880Y] (ab76424)

Unpurified ab76424 at 1/250 dilution staining Survivin in human colonic adenocarcinoma by Immunohistochemistry, Paraffin-embedded tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody [EP2880Y] (ab76424)

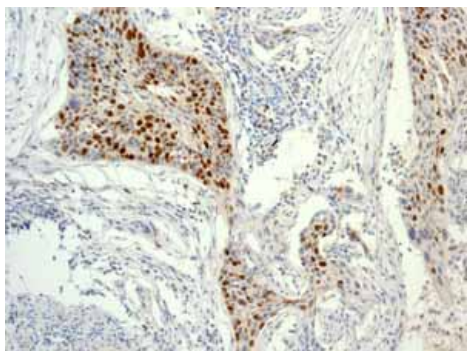
Unpurified ab76424 at 1/250 dilution staining Survivin in human urinary bladder carcinoma by Immunohistochemistry, Paraffin-embedded tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody [EP2880Y] (ab76424)

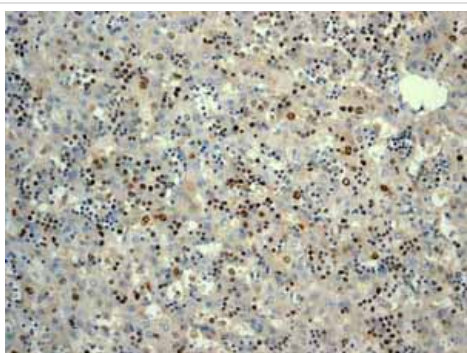
Unpurified ab76424 showing positive staining in breast carcinoma tissue.





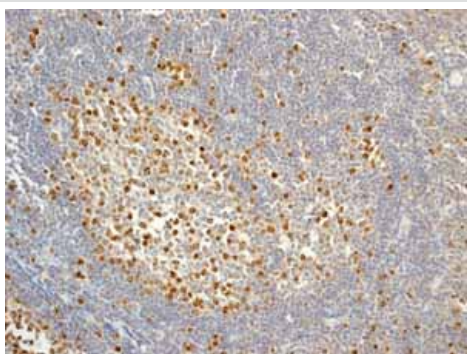
Unpurified ab76424 showing positive staining in cervical carcinoma tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody [EP2880Y] (ab76424)



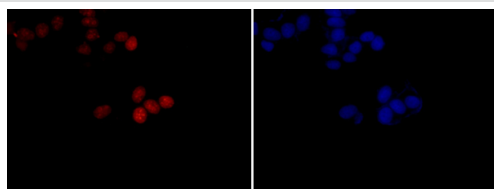
Unpurified ab76424 showing positive staining in fetal liver tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody [EP2880Y] (ab76424)



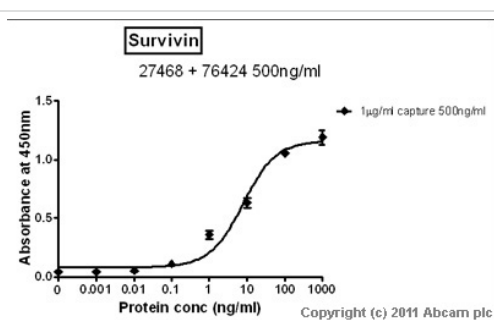
Unpurified ab76424 showing positive staining in normal tonsil tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody [EP2880Y] (ab76424)



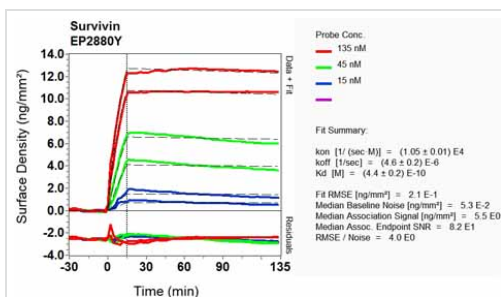
Immunocytochemistry/ Immunofluorescence - Anti-Survivin antibody [EP2880Y] (ab76424)

Immunocytochemistry/Immunofluorescence analysis of MCF-7 cells labelling Survivin with unpurified ab76424 at 1/100. Cells were fixed with 4% paraformaldehyde for 20 minutes at room temperature. Cells were incubated with the primary antibody overnight. An Alexa Fluor® 555-conjugated anti-rabbit IgG was used as the secondary antibody. Left - Survivin, Right - DAPI.



Sandwich ELISA - Anti-Survivin antibody [EP2880Y] (ab76424)

Standard curve for Survivin (Analyte: [ab87202](#)); dilution range 1pg/ml to 1µg/ml using Capture Antibody [ab27468](#) at 1µg/ml and Detector Antibody [abRabbit monoclonal \[EP2880Y\] to Survivin \(ab76424\)](#) at 0.5µg/ml. Concentration of [Rabbit monoclonal \[EP2880Y\] to Survivin \(ab76424\)](#) may vary from lot to lot; please use this curve as guideline.

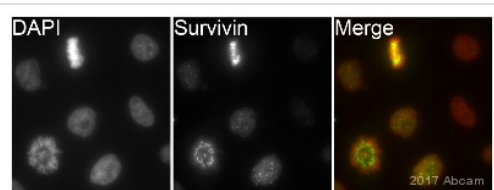


Other - Anti-Survivin antibody [EP2880Y] (ab76424)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)



Immunocytochemistry/ Immunofluorescence - Anti-Survivin antibody [EP2880Y] (ab76424)

This image is courtesy of an abreview by Kirk Mcmanus

ab76424 staining Survivin in the HeLa cell line from Human cervix by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.5% Triton X-100. Samples were incubated with primary antibody (1/500 in PBS) for 1 hour at 22°C. Ab150081 (1/200) was used as the secondary antibody.

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