abcam

Product datasheet

Anti-SUN2 antibody [EPR6557] ab124916

リコンビナント RabMAb

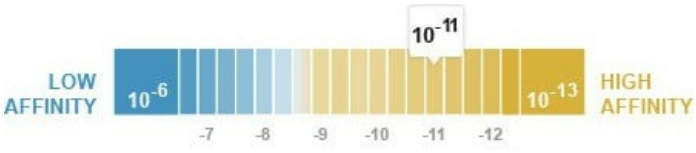
★★★★★ 5 Abreviews 28 References 画像数 13

製品の概要

製品名	Anti-SUN2 antibody [EPR6557]
製品の詳細	Rabbit monoclonal [EPR6557] to SUN2
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, IHC-P, ICC/IF
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide within Human SUN2 aa 700 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: **Q9UH99**
ポジティブ・コントロール	WB: Human fetal muscle, Saos-2, HeLa, Jurkat and HepG2 lysates. IHC-P: Human lung and ovary tissues. Flow Cyt (intra): HeLa cells. ICC/IF: HeLa cells.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
解離定数（K_D 値）	$K_D = 5.43 \times 10^{-11}$ M



Learn more about K_D

バッファー	pH: 7.20

	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR6557
アイソタイプ	IgG

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ab124916の使用に適用されます

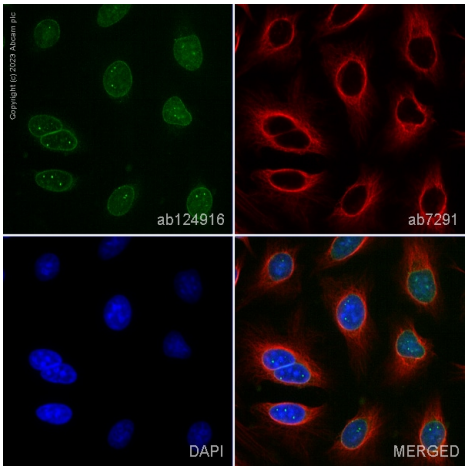
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/30.
WB	★★★★★ (3)	1/1000 - 1/10000. Predicted molecular weight: 80 kDa.
IHC-P		1/250 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (2)	Use a concentration of 0.2 - 1 µg/ml.

ターゲット情報

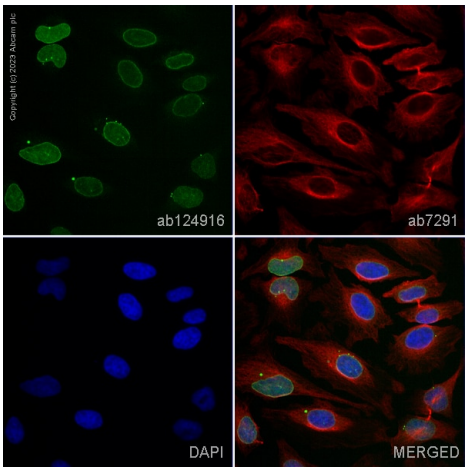
関連性	SUN proteins form part of the LINC complex - a protein bridge that spans the nuclear envelope linking the nucleoskeleten to the actin cytoskeleten. They are located on the inner nuclear membrane side of the complex. The LINC complex is thought to function in controlling nuclear position, contributing to mechanical resistance and the overall architecture of the cell. SUN2 can exist in a heterodimer with SUN1. Both can interact with lamins and nesprins in the nuclear envelope.
細胞内局在	Nuclear membrane, endosome membrane, mitotic spindle organization.

画像



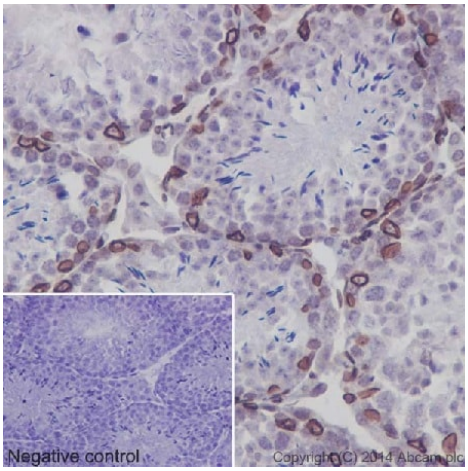
Immunocytochemistry/ Immunofluorescence - Anti-SUN2 antibody [EPR6557] (ab124916)

Immunofluorescence staining of SUN2 using ab124916 in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% Triton-X-100 (in PBS) for 5 mins and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab124916 at 1.0 µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin, at 1/1000 dilution. Cells were then incubated with **ab150081**, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).
Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



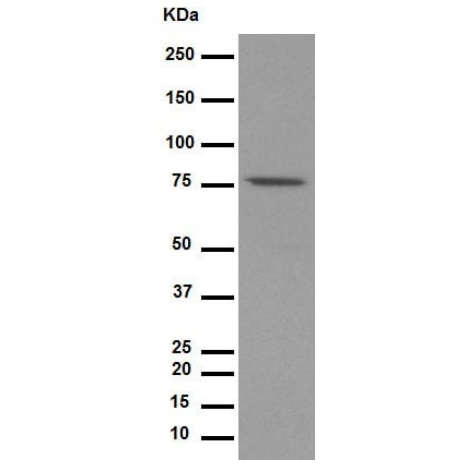
Immunocytochemistry/ Immunofluorescence - Anti-SUN2 antibody [EPR6557] (ab124916)

Immunofluorescence staining of SUN2 using ab124916 in HeLa cells. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton-X-100 (in PBS) for 5 mins and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab124916 at 0.2 µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin, at 1/1000 dilution. Cells were then incubated with **ab150081**, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).
Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUN2 antibody [EPR6557] (ab124916)

ab124916 staining SUN2 in mouse testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed and paraffin-embedded, antigen retrieval was by heat mediation in Tris/EDTA buffer pH9. Samples were incubated with primary antibody (1/500). An HRP-conjugated goat anti-rabbit IgG, **ab97051** (1/500) was used as the secondary antibody. Tissue counterstained with Hematoxylin. PBS was used in the negative control rather than the Primary antibody.



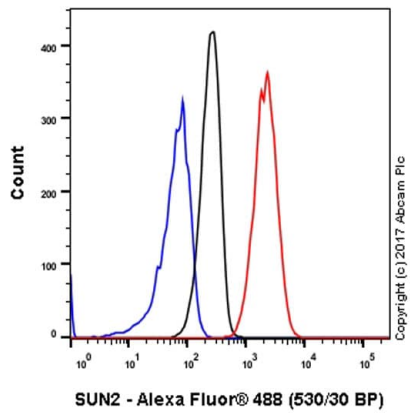
Western blot - Anti-SUN2 antibody [EPR6557] (ab124916)

Anti-SUN2 antibody [EPR6557] (ab124916) at 1/5000 dilution + Rat brain lysate at 10 µg

Secondary

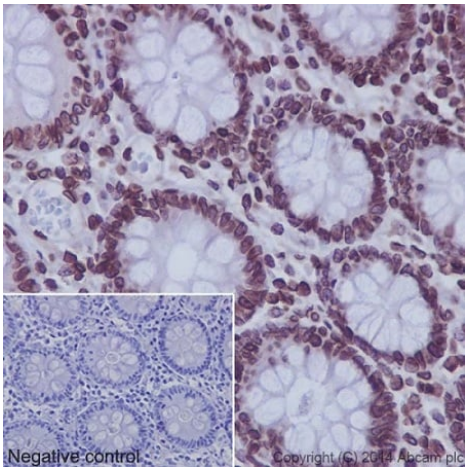
Goat Anti-Rabbit IgG, (H+L), HRP- conjugated at 1/1000 dilution

Predicted band size: 80 kDa



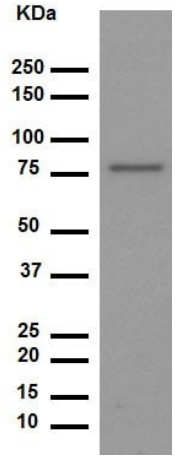
Flow Cytometry (Intracellular) - Anti-SUN2 antibody [EPR6557] (ab124916)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling SUN2 (red) with ab124916 at a 1/30 dilution. Cells were fixed with 80% methanol and permeabilized with 0.1% Tween-20. A goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (**ab172730**). Blue (unlabeled control) - Cells without incubation with the primary and secondary antibodies.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUN2 antibody [EPR6557] (ab124916)

ab124916 staining SUN2 in Human colon tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed and paraffin-embedded, antigen retrieval was by heat mediation in Tris/EDTA buffer pH9. Samples were incubated with primary antibody (1/500). An HRP-conjugated Goat anti-rabbit IgG, **ab97051** (1/500), was used as the secondary antibody. Tissue counterstained with Hematoxylin. PBS was used in the negative control rather than the Primary antibody.



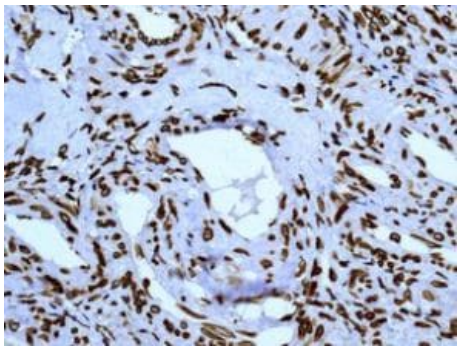
Western blot - Anti-SUN2 antibody [EPR6557] (ab124916)

Anti-SUN2 antibody [EPR6557] (ab124916) at 1/5000 dilution + Mouse heart lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), HRP- conjugated at 1/1000 dilution

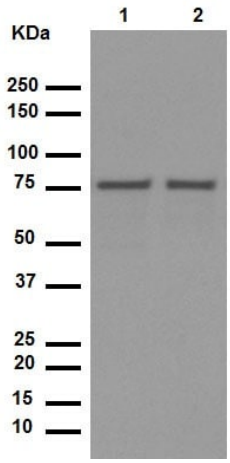
Predicted band size: 80 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUN2 antibody [EPR6557] (ab124916)

ab124916, unpurified, at a 1/250 dilution, staining SUN2 in paraffin embedded Human ovarian tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-SUN2 antibody [EPR6557] (ab124916)

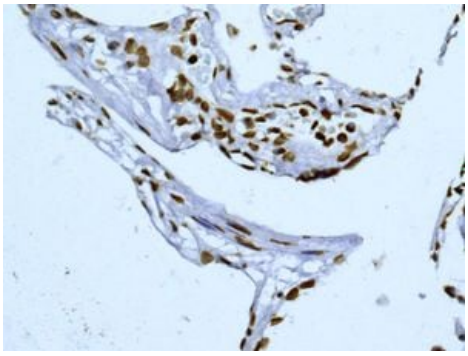
All lanes : Anti-SUN2 antibody [EPR6557] (ab124916) at 1/5000 dilution

Lane 1 : HeLa cell Lysate
Lane 2 : Jurkat cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), HRP- conjugated at 1/1000 dilution

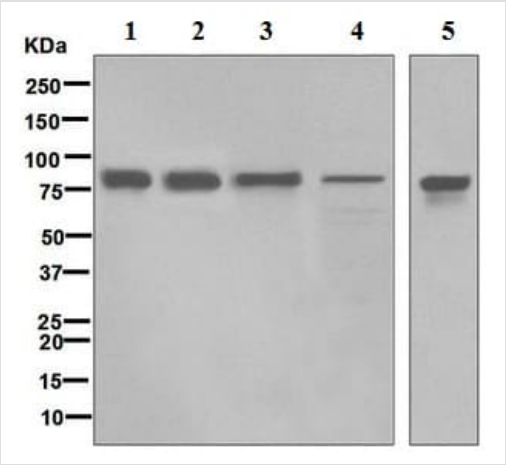
Predicted band size: 80 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUN2 antibody [EPR6557] (ab124916)

ab124916, unpurified, at a 1/250 dilution, staining SUN2 in paraffin embedded Human lung tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-SUN2 antibody [EPR6557] (ab124916)

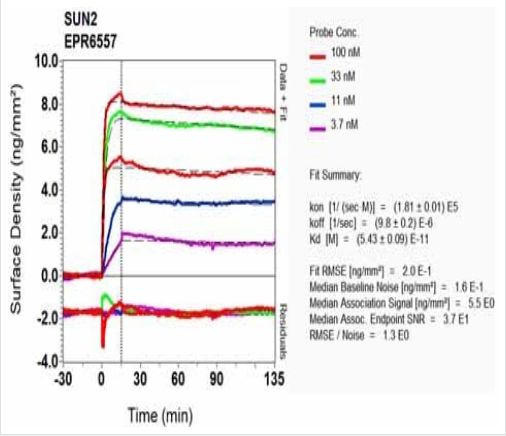
All lanes : Anti-SUN2 antibody [EPR6557] (ab124916) at 1/1000 dilution (unpurified)

Lane 1 : Human fetal muscle lysate
Lane 2 : Saos-2 lysate
Lane 3 : HeLa lysate
Lane 4 : Jurkat lysate
Lane 5 : HepG2 lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 80 kDa

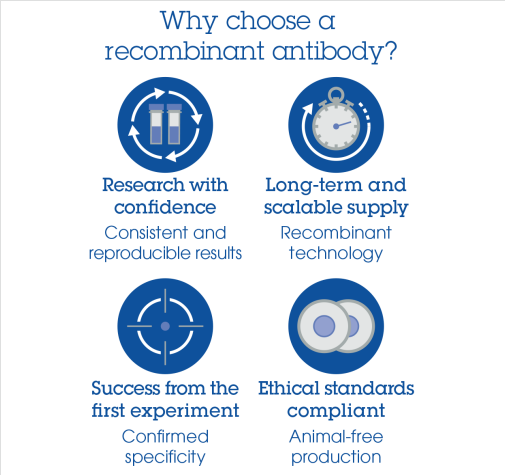


OI-RD Scanning - Anti-SUN2 antibody [EPR6557] (ab124916)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-SUN2 antibody [EPR6557] (ab124916)

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