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Product datasheet

Anti-Calnexin antibody [6F12BE10] ab112995

KO 評価済

2 Abreviews 14 References 画像数 6

製品の概要

製品名	Anti-Calnexin antibody [6F12BE10]
製品の詳細	Mouse monoclonal [6F12BE10] to Calnexin
由来種	Mouse
特異性	Shotgun immunization of human HeLa cell lysates into mice. Targets were determined by mass spectrometry and validated by WB, ICC, ELISA pair and other techniques.
アプリケーション	**適用あり:** WB, IP, Flow Cyt, ICC/IF, IHC-P
種交差性	**交差種:** Human **非交差種:** Mouse
免疫原	Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	HeLa cells; HL60 cells and human fibroblasts.
特記事項	This monoclonal antibody to calnexin has been knockout validated in WB and ICC/IF. The expected signal was observed in wild type cells and the signal was not seen in knockout cells. This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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. 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

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). Store at -20°C long term.
バッファー	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: 99.98% HEPES buffered saline

精製度	Proprietary Purification
特記事項（精製）	ab112995 was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. Monoclonal purity was near homogeneity as judged by SDS-PAGE (>95%).
ポリ/モノ	モノクローナル
クローン名	6F12BE10
アイソタイプ	IgG2b
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ab112995の使用に適用されます

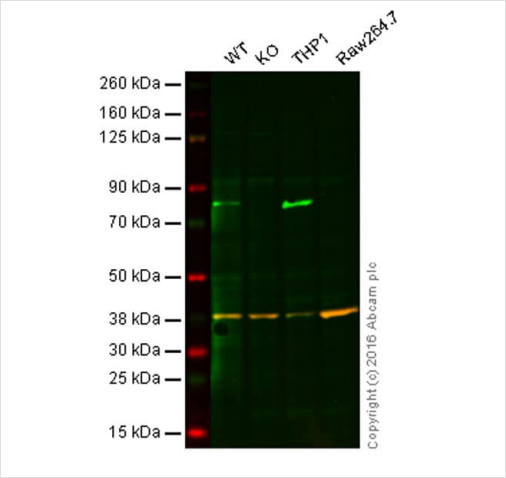
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★☆☆ (1)	Use at an assay dependent concentration. Predicted molecular weight: 68 kDa.
IP		Use at an assay dependent concentration.
Flow Cyt		Use a concentration of 1 µg/ml. **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 0.5 µg/ml.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ターゲット情報

機能	Calcium-binding protein that interacts with newly synthesized glycoproteins in the endoplasmic reticulum. It may act in assisting protein assembly and/or in the retention within the ER of unassembled protein subunits. It seems to play a major role in the quality control apparatus of the ER by the retention of incorrectly folded proteins.
配列類似性	Belongs to the calreticulin family.
細胞内局在	Endoplasmic reticulum membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

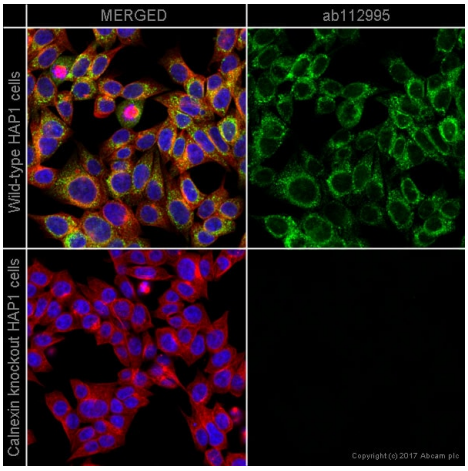
画像



Western blot - Anti-Calnexin antibody [6F12BE10] (ab112995)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: Calnexin knockout HAP1 cell lysate (20 µg)
Lane 3: THP1 cell lysate (20 µg)
Lane 4: Raw264.7 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab112995 observed at 80 kDa. Red - loading control, **ab181602**, observed at 37 kDa.

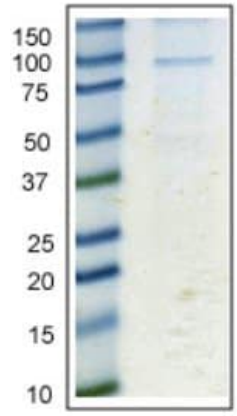
ab112995 was shown to specifically react with Calnexin. Wild-type and Calnexin knockout samples were subjected to SDS-PAGE. ab112995 at a concentration of 1 µg/mL and **ab181602** (loading control to GAPDH) diluted to 1/1000 were incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Calnexin antibody [6F12BE10] (ab112995)

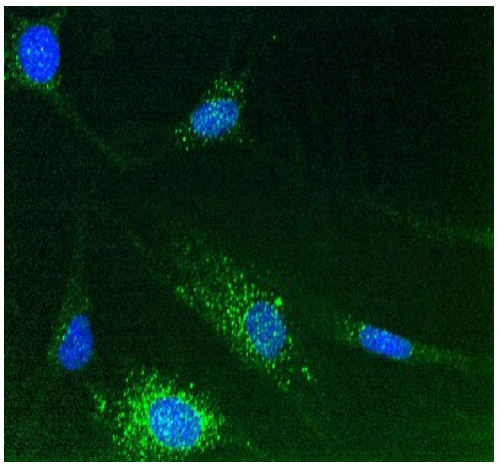
ab112995 staining Calnexin (shown in green) in wild-type HAP1 cells (top panel) and CANX knockout HAP1 cells (bottom panel). The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 min and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1 hour. The cells were then incubated with ab112995 at 0.5 µg/ml and **ab202272** at 1/250 dilution (alpha tubulin shown in red) overnight at +4°C, followed by a further incubation at room temperature for 1 hour with a goat secondary antibody to Mouse IgG (Alexa Fluor® 488) (**ab150117**) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



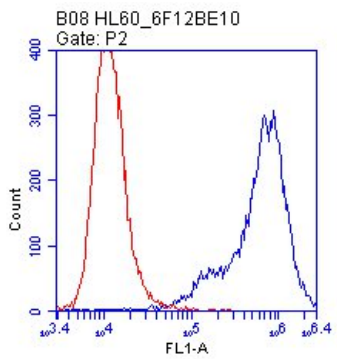
Immunoprecipitation - Anti-Calnexin antibody [6F12BE10] (ab112995)

Immunoprecipitation with ab112995.
Immunoprecipitation of Calnexin - ER membrane marker from HeLa cell lysate. The protein band runs around 90 kDa (predicted 68kDa) in tris-glycine SDS-PAGE. The identity of this protein was confirmed by mass spectrometry. This gel was stained with colloidal Coomassie blue G.



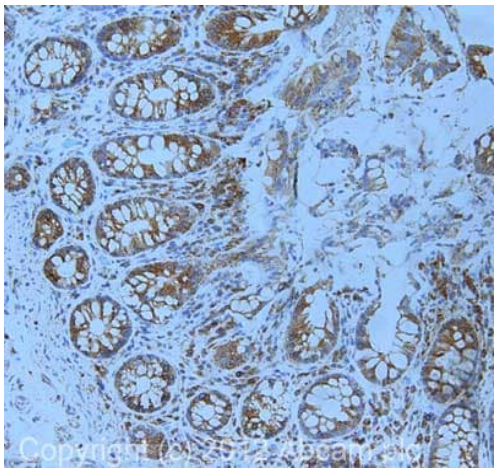
Immunocytochemistry/ Immunofluorescence - Anti-Calnexin antibody [6F12BE10] (ab112995)

ab112995 at 5µg/ml staining Calnexin - ER membrane marker in Human fibroblasts cells by Immunocytochemistry (4% paraformaldehyde fixed and 0.1% Triton X-100 permeabilized) followed by Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h (green).



Flow Cytometry - Anti-Calnexin antibody [6F12BE10] (ab112995)

ab112995 at 1µg/ml staining Calnexin - ER membrane marker in HL60 cells fixed with MeOH by Flow Cytometry (blue). Isotype control antibody (red).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calnexin antibody [6F12BE10] (ab112995)

IHC image of ab112995 staining in human colon formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab112995, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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