abcam

Product datasheet

HRP Anti-Calreticulin antibody [EPR3924] - ER Marker ab195511

KO 評価済 リコンビナント RabMAb

画像数 4

製品の概要

製品名	HRP Anti-Calreticulin antibody [EPR3924] - ER Marker
製品の詳細	HRP Rabbit monoclonal [EPR3924] to Calreticulin - ER Marker
由来種	Rabbit
標識	HRP
アプリケーション	**適用あり:** WB, IHC-P
種交差性	**交差種:** Human **交差が予測される動物種:** Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as **ab180826**)
ポジティブ・コントロール	WB: HepG2 and HeLa whole cell lysates. Human Fetal Brain tissue lysate. IHC-P: FFPE human normal kidney tissue sections.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.
バッファー	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS

精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR3924
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ab195511の使用に適用されます

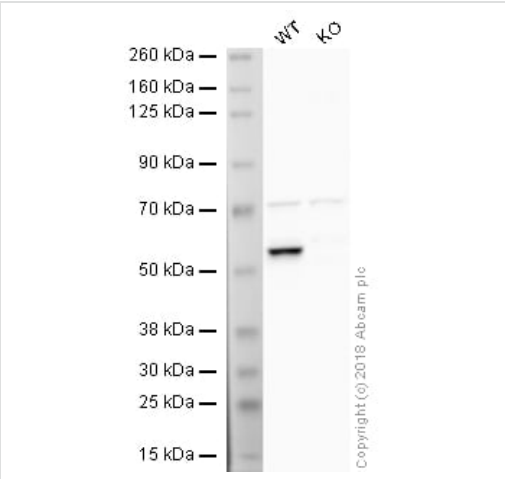
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/5000. Detects a band of approximately 55 kDa (predicted molecular weight: 48 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ターゲット情報

機能	Molecular calcium-binding chaperone promoting folding, oligomeric assembly and quality control in the ER via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export.
配列類似性	Belongs to the calreticulin family.
ドメイン	Can be divided into a N-terminal globular domain, a proline-rich P-domain forming an elongated arm-like structure and a C-terminal acidic domain. The P-domain binds one molecule of calcium with high affinity, whereas the acidic C-domain binds multiple calcium ions with low affinity. The interaction with glycans occurs through a binding site in the globular lectin domain. The zinc binding sites are localized to the N-domain. Associates with PDIA3 through the tip of the extended arm formed by the P-domain.
細胞内局在	Endoplasmic reticulum lumen. Cytoplasm > cytosol. Secreted > extracellular space > extracellular matrix. Cell surface. Also found in cell surface (T cells), cytosol and extracellular matrix. Associated with the lytic granules in the cytolytic T-lymphocytes.

画像



Western blot - HRP Anti-Calreticulin antibody [EPR3924] - ER Marker (ab195511)

All lanes : HRP Anti-Calreticulin antibody [EPR3924] - ER Marker (ab195511) at 1/5000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : CALR knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

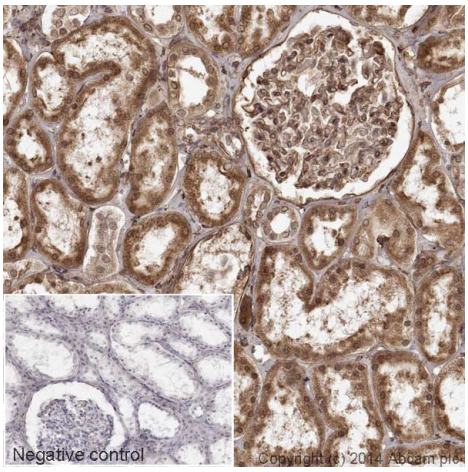
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 48 kDa
Observed band size: 55 kDa

Exposure time: 90 seconds

ab195511 was shown to recognise Calreticulin in wild-type HAP1 cells as signal was lost at the expected MW in CALR knockout cells. Additional cross -reactive bands were observed in the wild0type and knockout cells. Wile-type and CALR knockout samples were subjected to SDS-PAGE. Ab195511 was incubated overnight at 4°C at 1/5000 dilution. Blots were developed with ECL technique.

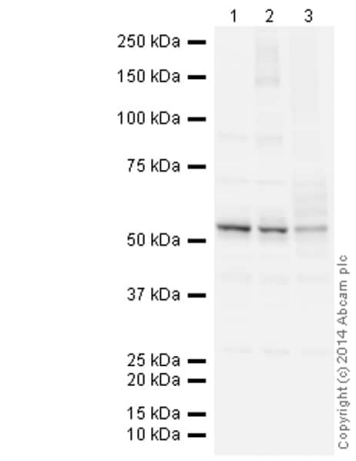


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Calreticulin antibody [EPR3924] - ER Marker (ab195511)

IHC image of Calreticulin staining in a section of formalin-fixed paraffin-embedded human normal kidney*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins, and incubated overnight at +4°C with ab195511 at 1µg/ml. DAB was used as the chromogen (**ab103723**), diluted 1/100 and incubated for 10min at room temperature. The section was counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

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.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - HRP Anti-Calreticulin antibody [EPR3924] - ER Marker (ab195511)

All lanes : HRP Anti-Calreticulin antibody [EPR3924] - ER Marker (ab195511) at 1/5000 dilution

Lane 1 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate
Lane 2 : HeLa whole cell lysate (**ab150035**)
Lane 3 : Brain (Human) Tissue Lysate - fetal normal tissue

Lysates/proteins at 10 µg per lane.

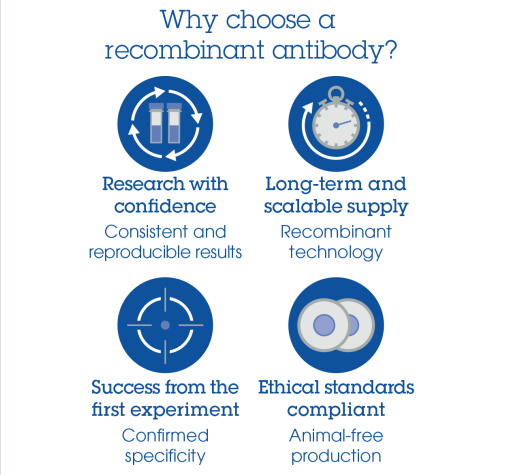
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 48 kDa
Observed band size: 55 kDa

Exposure time: 8 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab195511 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.



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