

Product datasheet

Anti-Calreticulin antibody - ER Marker ab39897

KO 評価済

★★★★☆ 1 Abreviews 1 References 画像数 2

製品の概要

製品名	Anti-Calreticulin antibody - ER Marker
製品の詳細	Rabbit polyclonal to Calreticulin - ER Marker
由来種	Rabbit
アプリケーション	適用あり: WB
種交差性	交差種: Human 交差が予測される動物種: Mouse, Rat, Rabbit, Chinese hamster
免疫原	Synthetic peptide conjugated to KLH derived from within residues 50 - 150 of Human Calreticulin. Immunogen の所有権に関して (Peptide available as ab39896 .)
ポジティブ・コントロール	This antibody gave a positive signal in the following whole cell lysates: HeLa (Human epithelial carcinoma cell line); Jurkat (Human T cell lymphoblast-like cell line); HepG2 (Human hepatocellular liver carcinoma cell line); A431 (Human epithelial carcinoma cell line).

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 or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS. pH 7.4
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab39897** in the following tested applications.

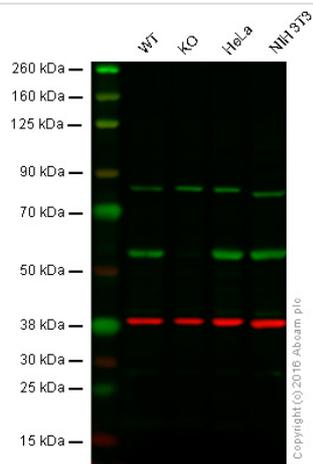
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/250. Detects a band of approximately 55 kDa (predicted molecular weight: 48 kDa).

ターゲット情報

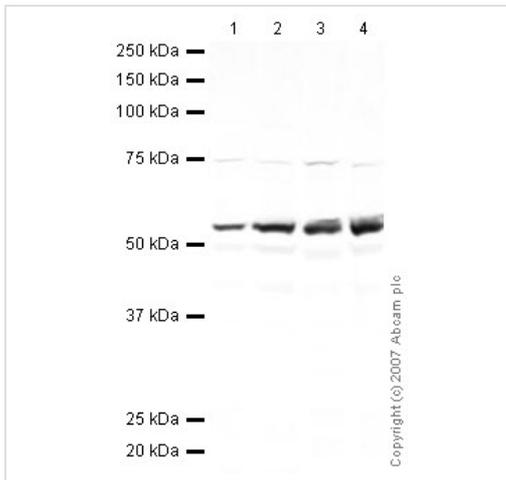
機能	Molecular calcium-binding chaperone promoting folding, oligomeric assembly and quality control in the ER via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding domain 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 - Anti-Calreticulin antibody - ER Marker (ab39897)

Lane 1: Wild-type HAP1 cell lysate (20 μ g)
 Lane 2: Calreticulin knockout HAP1 cell lysate (20 μ g)
 Lane 3: HeLa cell lysate (20 μ g)
 Lane 4: NIH3T3 cell lysate (20 μ g)
 Lanes 1 - 4: Merged signal (red and green).
 Green - ab39897 observed at 55 kDa. Red - loading control, ab8245, observed at 37 kDa. ab39897 was shown to recognize Calreticulin when Calreticulin knockout samples were used, along with additional cross-reactive bands. Wild-type and Calreticulin knockout samples were subjected to SDS-PAGE. ab39897 and ab8245 (loading control to GAPDH) were diluted 1/250 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with goat anti-rabbit IgG (H + L) and goat anti-mouse IgG (H + L) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Calreticulin antibody - ER Marker (ab39897)

All lanes : Anti-Calreticulin antibody - ER Marker (ab39897) at 1 µg/ml

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

Lane 2 : Jurkat whole cell lysate (ab7899)

Lane 3 : HepG2 whole cell lysate (ab7900)

Lane 4 : A431 whole cell lysate (ab7909)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 48 kDa

Observed band size: 55 kDa

Additional bands at: 75 kDa. We are unsure as to the identity of these extra bands.

The predicted band size is 48kDa based on Swiss-prot data, however a band of 55kDa is consistent with that observed in other commercially available antibodies to Calreticulin. This difference in size is likely to be the result of post-translational modification.

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