

Anti-KDEL antibody [10C3] ab12223

★★★★★ [19 Abreviews](#) [90 References](#) [画像数 6](#)

製品の概要

製品名	Anti-KDEL antibody [10C3]
製品の詳細	Mouse monoclonal [10C3] to KDEL
由来種	Mouse
特異性	This antibody specifically recognizes proteins containing the SEKDEL sequence in mammals, birds, insects and plants. It recognises GPR78 and GPR94 with particular prominence. N.B Recent customer feedback has provided evidence that this antibody more specifically recognises the SEKDEL sequence rather than simply the KDEL sequence.
アプリケーション	適用あり: IHC-P, IHC-Fr, ICC/IF, WB, ELISA, IP, Flow Cyt
種交差性	交差種: Mouse, Human 交差が予測される動物種: Saccharomyces cerevisiae, Bird, Plants, a wide range of other species, Mammals 
免疫原	Synthetic peptide corresponding to Rat KDEL aa 649-654 (C terminal) conjugated to keyhole limpet haemocyanin. Sequence: SEKDEL (GRP-78) Database link: P06761  Run BLAST with  Run BLAST with
ポジティブ・コントロール	HeLa cell lysate
特記事項	Abcam is committed to meeting high quality standards of ethical manufacturing and has decided to discontinue this product by June 2020 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We suggest ab176333 or ab2898 as possible replacements.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)

精製度	Protein G purified
特記事項 (精製)	Purified from hybridoma tissue culture supernatant.
ポリ/モノ	モノクローナル
クローン名	10C3
アイソタイプ	IgG2a

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ab12223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。

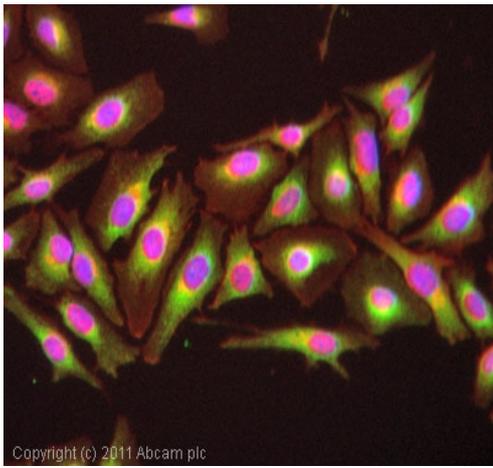
アプリケーション	Abreviews	特記事項
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
IHC-Fr	★★★★★ (2)	Use at an assay dependent concentration.
ICC/IF	★★★★☆ (7)	Use at an assay dependent concentration.
WB	★★★★★ (7)	1/1000. Predicted molecular weight: 78 , 94, 55 kDa.
ELISA		Use a concentration of 5 - 10 µg/ml.
IP	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt		Use 0.5µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

ターゲット情報

関連性 The sequence Lys-Asp-Glu-Leu (KDEL) or a closely related sequence, is present at the carboxy-terminus of soluble endoplasmic reticulum (ER) resident proteins and some membrane proteins. 78 and 94 kDa glucose regulated proteins (GRP 78) and GRP 94 respectively and protein disulfide isomerase (PDI) all share the C-terminal KDEL sequence. The presence of carboxy-terminal KDEL appears to be necessary for ER retention and appears to be sufficient to reduce the secretion of proteins from the ER. This retention is reported to be mediated by a KDEL receptor.

細胞内局在 Endoplasmic reticulum

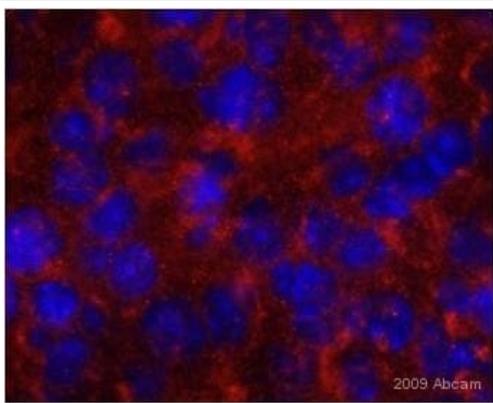
画像



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Immunocytochemistry/ Immunofluorescence - Anti-KDEL antibody [10C3] (ab12223)

ICC/IF image of ab12223 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab12223, 10µg/ml) overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-mouse IgG - H&L, pre-adsorbed (**ab96879**) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

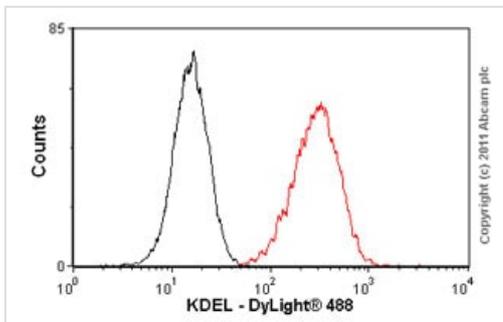


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Immunohistochemistry (Frozen sections) - Anti-KDEL antibody [10C3] (ab12223)

This image is a courtesy of Anonymous Abreview

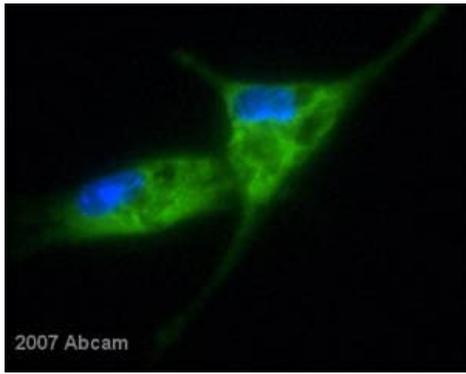
ab12223 staining KDEL in mouse liver tissue section by Immunohistochemistry (Frozen sections). Tissue samples were fixed with formaldehyde and permeabilized with 0.2% Triton X-100 before blocking with 2% BSA for 30 minutes at 20°C. The sample was incubated with primary antibody (1/200) for 9 hours at 4°C. An Alexa Fluor® 555-conjugated Goat polyclonal to mouse IgG was used as secondary antibody at dilution at 1/200. DAPI was used to stain the cell nuclei (blue).



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Flow Cytometry - Anti-KDEL antibody [10C3] (ab12223)

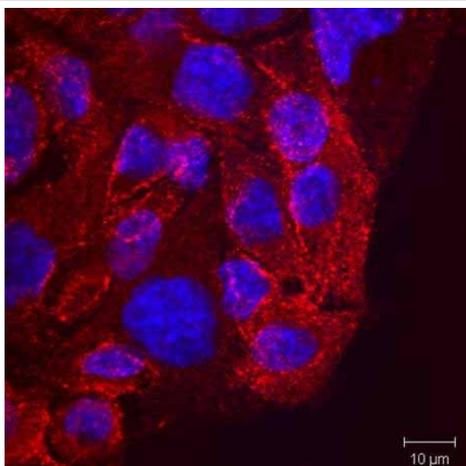
Overlay histogram showing HeLa cells stained with ab12223 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab12223, 0.5µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (**ab91361**, 1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.



Immunocytochemistry/ Immunofluorescence - Anti-KDEL antibody [10C3] (ab12223)

This image is courtesy of an anonymous Abreview

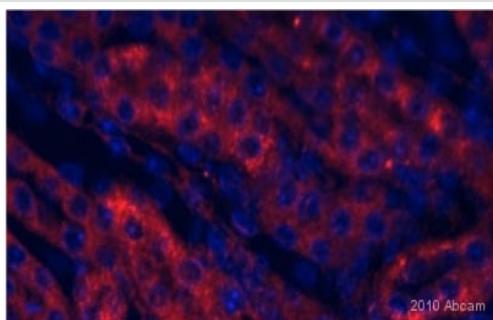
ab12223 at 1/250 staining a mouse macrophage cell line by ICC/IF. The cells were paraformaldehyde fixed and blocked with BSA prior to incubation with the antibody for 24 hours. An Alexa-Fluor® 488 conjugated donkey anti-mouse antibody was used as the secondary.



Immunocytochemistry/ Immunofluorescence - Anti-KDEL antibody [10C3] (ab12223)

This image is courtesy of an Abreview submitted by Dr Dan Tattersall

ab12223 staining human HeLa cells by ICC/IF. Cells were PFA fixed and permeabilized in 0.1% Triton X-100 for 10 minutes prior to blocking in 3% BSA for 15 minutes at room temperature. The primary antibody was diluted 1/50 and incubated with sample for 1 hour. A Alexa Fluor® 568 goat polyclonal to mouse IgG was used as the secondary, diluted 1/1000.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KDEL antibody [10C3] (ab12223)

This image is courtesy of an anonymous Abreview.

ab12223 staining KDEL in Mouse kidney tissue by Immunohistochemistry (Formalin/ PFA-fixed paraffin-embedded tissue sections). The sections were Formaldehyde-fixed and subjected to Heat-mediated antigen retrieval in citric acid (pH 6.0) and permeabilized with 0.2% Triton X-100 prior to blocking with 5% BSA for 2 hours at 25°C. The primary antibody was diluted 1/250 in PBS and incubated with the sample for 9 hours at 4°C. An Alexa Fluor® 594-conjugated Goat anti-Mouse IgG polyclonal was used as the secondary antibody, diluted 1/500. A DAPI counterstain was used for nuclei.

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