

Product datasheet

Anti-Calnexin antibody - ER Membrane Marker ab75801

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Overview

Product name	Anti-Calnexin antibody - ER Membrane Marker
Description	Rabbit polyclonal to Calnexin - ER Membrane Marker
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P, IP, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide corresponding to Dog Calnexin (C terminal) conjugated to Keyhole Limpet Haemocyanin (KLH).
General notes	<p>References regarding specificity</p> <p>Horner SM <i>et al.</i> Mitochondrial-associated endoplasmic reticulum membranes (MAM) form innate immune synapses and are targeted by hepatitis C virus. <i>Proc Natl Acad Sci U S A</i> 108:14590-5 (2011). PubMed: 21844353</p> <p>Myhill N <i>et al.</i> The subcellular distribution of calnexin is mediated by PACS-2. <i>Mol Biol Cell</i> 19:2777-88 (2008). PubMed: 18417615</p> <p>Yoshimura SI <i>et al.</i> Direct targeting of cis-Golgi matrix proteins to the Golgi apparatus. <i>J Cell Sci</i> 114:4105-15 (2001). PubMed: 11739642</p> <p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide

	Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab75801 in the following tested applications.

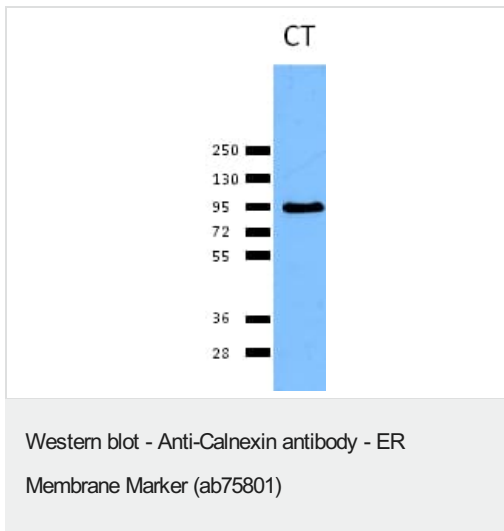
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100.
IHC-P		1/100.
IP		1/100.
WB		1/2000. Detects a band of approximately 90 kDa (predicted molecular weight: 90 kDa).

Target

Function	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.
Sequence similarities	Belongs to the calreticulin family.
Cellular localization	Endoplasmic reticulum membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



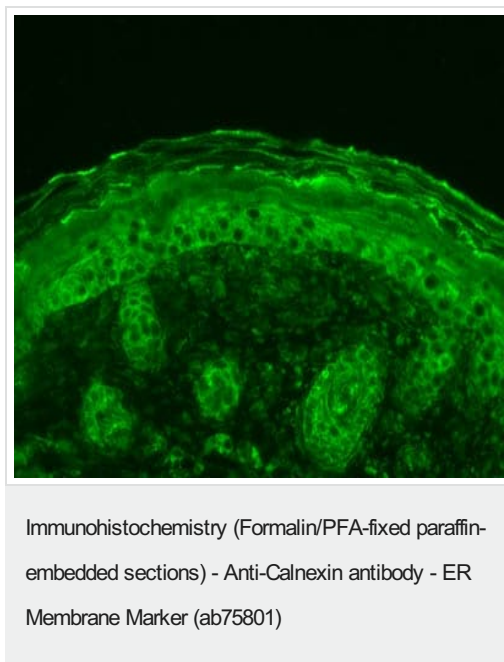
Anti-Calnexin antibody - ER Membrane Marker (ab75801) at 1/2000 dilution ((in TBS with 0.05% TW-20)) + HeLa cell lysate

Secondary

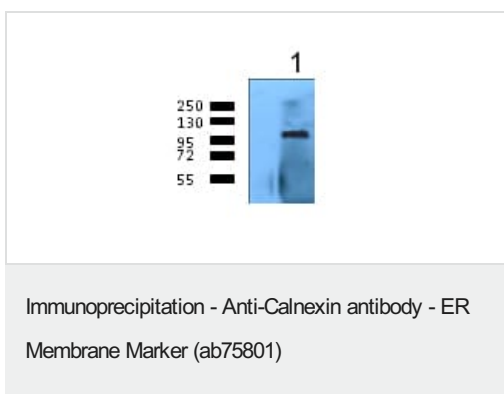
An HRP-conjugated goat anti-rabbit IgG

Developed using the ECL technique.

Predicted band size: 90 kDa

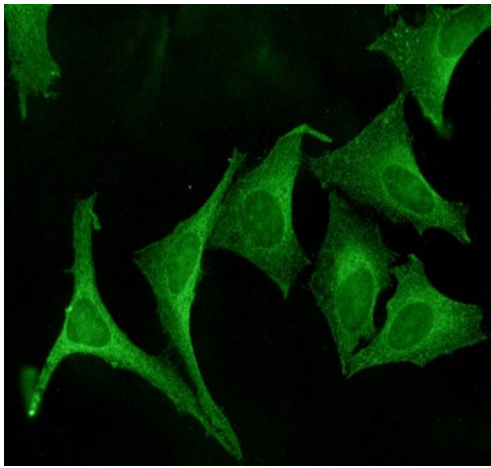


ab75801 staining Calnexin in juvenile mouse backskin tissue section by Immunohistochemistry (Formalin/ PFA fixed paraffin-embedded tissue sections).



ab75801 used in Immunoprecipitation of Calnexin from Human Hela cells. The antibody was used at 20µl per 1 ml of cell lysate.

20µl of protein G beads were used in Immunoprecipitation.



Immunocytochemistry/ Immunofluorescence - Anti-Calnexin antibody - ER Membrane Marker (ab75801)

ab75801 staining Calnexin in HeLa cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% PFA for 20 minutes at room temperature. Samples were incubated with primary antibody (1/100) for 1 hour at room temperature. A Fluorescein-conjugated goat anti-rabbit IgG secondary antibody was used.

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