

Anti-Calnexin antibody ab10286

★★★★★ [21 Abreviews](#) [69 References](#) [5 Images](#)

Overview

Product name	Anti-Calnexin antibody
Description	Rabbit polyclonal to Calnexin
Host species	Rabbit
Specificity	Recognizes ER membrane, mitochondria and cis-Golgi
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment (His-tag) corresponding to Dog Calnexin aa 1-500. Expressed in E. coli. N-terminal ER luminal domain. Database link: P24643
Positive control	WB: Human CEM T-lymphoblastoid leukemia cell lines. MCF cells. HeLa total cell lysate. HeLa membrane fraction. MDA-MB231 total cell lysate. MDA-MB231 membrane fraction.
General notes	<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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Constituent: 99% Rabbit Serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab10286 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
WB	★★★★★ (14)	1/2000 - 1/5000. Predicted molecular weight: 67 kDa. 1/2000 - 1/5000. Predicted molecular weight: 67 kDa; however it does run on SDS-PAGE as an ~90kDa protein, this is mainly due to a number of negative charges at the C-terminus of the protein which effects the SDS binding to the molecules and consequently its SDS-PAGE mobility.

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.

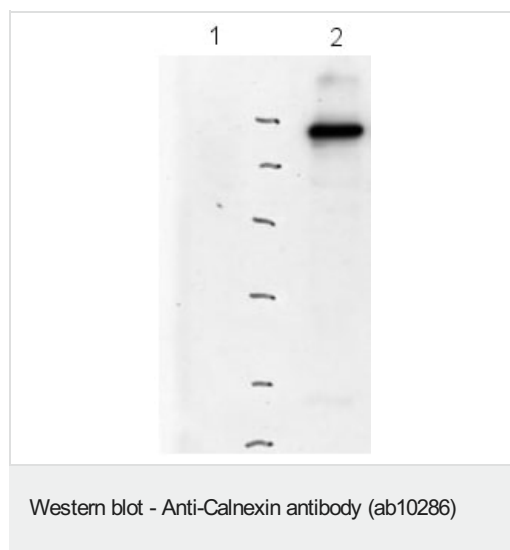
Sequence similarities

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

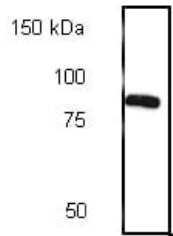


Western blot probed with ab10286 at 1/1000.

Lane 1 – calnexin deficient human NKR T-lymphoblastoid leukemia cell lines.

Lane 2 - human CEM T-lymphoblastoid leukemia cell lines.

Western blot probed with ab10286 at 1/1000. Lane 1 – calnexin deficient human NKR T-lymphoblastoid leukemia cell lines. Lane 2 - human CEM T-lymphoblastoid leukemia cell lines.



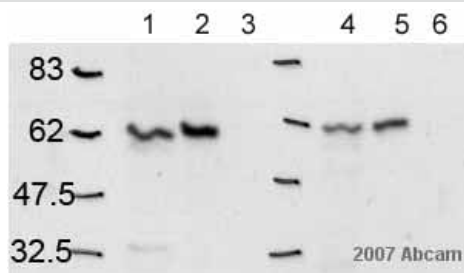
Western blot - Anti-Calnexin antibody (ab10286)

Anti-Calnexin antibody (ab10286) at 1/1000 dilution + MCF7 cells

Secondary

Goat anti rabbit at 1/10000 dilution

Predicted band size: 67 kDa



Western blot - Anti-Calnexin antibody (ab10286)

This image is courtesy of an Abreview submitted by Dr Neil Taylor

All lanes : Anti-Calnexin antibody (ab10286) at 1/4000 dilution

Lane 1 : HeLa (Total cell lysate)

Lane 2 : HeLa (Membrane fraction)

Lane 3 : HeLa (Cytoplasmic fraction)

Lane 4 : MDA-MB231 (Total cell lysate)

Lane 5 : MDA-MB231 (Membrane fraction)

Lane 6 : MDA-MB231 (Cytoplasmic fraction)

Secondary

All lanes : HRP conjugated donkey anti-rabbit

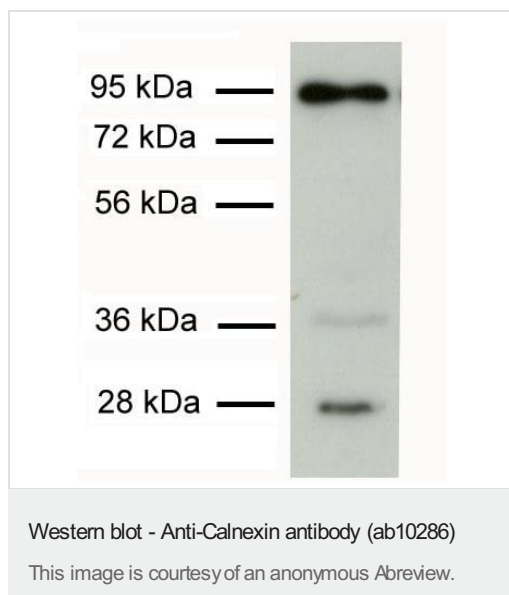
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 67 kDa

Observed band size: 67 kDa

Exposure time: 5 minutes



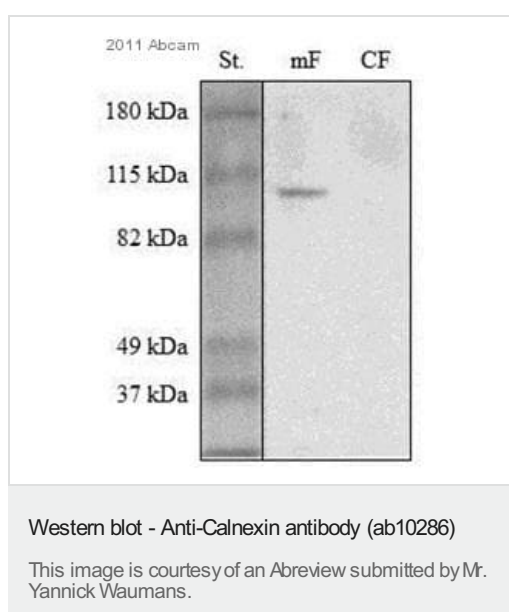
Anti-Calnexin antibody (ab10286) at 1/2000 dilution + HeLa whole cell lysate

Secondary

Goat anti-rabbit HRP at 1/2000 dilution

Developed using the ECL technique.

Predicted band size: 67 kDa



All lanes : Anti-Calnexin antibody (ab10286) at 1/4000 dilution

Lane 1 : CHO membrane fraction

Lane 2 : CHO cytosolic fraction

Secondary

All lanes : HRP-conjugated Goat anti-Rabbit Ig at 1/5000 dilution

Predicted band size: 67 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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