

## Product datasheet

### Anti-Calnexin antibody [EPR21205] ab213243

KO **VALIDATED** Recombinant

[6 References](#) [2 Images](#)

#### Overview

Product name	Anti-Calnexin antibody [EPR21205]
Description	Rabbit monoclonal [EPR21205] to Calnexin
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB <b>Unsuitable for:</b> ICC/IF
Species reactivity	<b>Reacts with:</b> Mouse, Human
Immunogen	Recombinant full length protein (His-tag) corresponding to Mouse Calnexin. Expressed in HEK293 Cells Database link: <a href="#">NP_031623.1</a>
Positive control	WB: NIH3T3, HeLa, HAP1
General notes	This product was made using <b><u>synthetic libraries and phage display technology</u></b> .  This antibody is a recombinant chimeric antibody. Rabbit chimeric monoclonal antibody (Human Fab/ Rabbit Fc).

#### 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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Clonality	Monoclonal
Clone number	EPR21205
Isotype	IgG1

#### Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab213243 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		Use a concentration of 1 - 2.5 µg/ml. Predicted molecular weight: 68 kDa.

#### Application notes

Is unsuitable for ICC/IF.

#### 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.

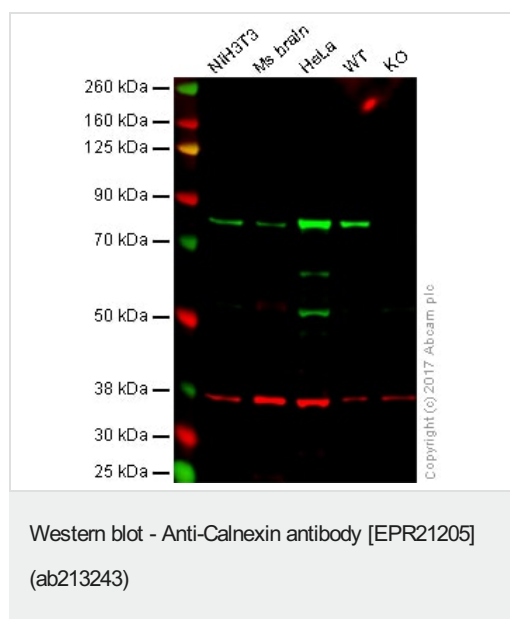
#### Sequence similarities

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



**Lane 1:** NIH3T3 whole cell lysate (10 µg)

**Lane 2:** Mouse brain whole tissue lysate (10 µg)

**Lane 3:** HeLa whole cell lysate (10 µg)

**Lane 4:** Hap1 Wild-type whole cell lysate (10 µg)

**Lane 5:** CANX knockout Hap1 whole cell lysate (10 µg)

**Lanes 1 - 5:** Merged signal (red and green). Green - ab213243 observed at 75 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab213243 was shown to specifically react with Calnexin in wild-type HAP1 cells as signal was lost in Calnexin (CANX) knockout cells. Wild-type and CANX knockout samples were subjected to SDS-PAGE. Nitrocellulose membranes were blocked in 3% milk in TBST before ab213243 and [ab8245](#) (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1µg/mL and 1/10,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Calnexin antibody [EPR21205] (ab213243)

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

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