

## Product datasheet

# Recombinant Human Calreticulin protein ab91577

[2 References](#) [3 Images](#)

### Description

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<b>Product name</b>	Recombinant Human Calreticulin protein
<b>Purity</b>	> 80 % SDS-PAGE. Purity: > 80 % full-length protein as determined by Western blot analyses
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P27797</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Tags</b>	His tag N-Terminus
<b>Additional sequence information</b>	His-tag on N-terminal with thrombin cleavage site.

### Specifications

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Our **Abpromise guarantee** covers the use of **ab91577** in the following tested applications.

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

**Applications** Western blot

SDS-PAGE

**Form** Liquid

### Preparation and Storage

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**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

Constituents: 0.056% Calcium chloride, 5% Glycerol (glycerin, glycerine), 0.877% Sodium chloride, 0.606% Tris

### General Info

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**Function** 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.

### Sequence similarities

Belongs to the calreticulin family.

### Domain

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.

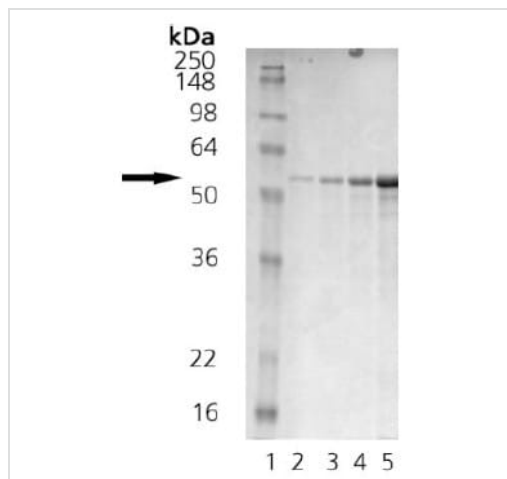
Associates with PDIA3 through the tip of the extended arm formed by the P-domain.

### Cellular localization

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.

### Images



SDS-PAGE Analysis of ab91577 stained with Coomassie Blue.

Lane 1: MW Marker

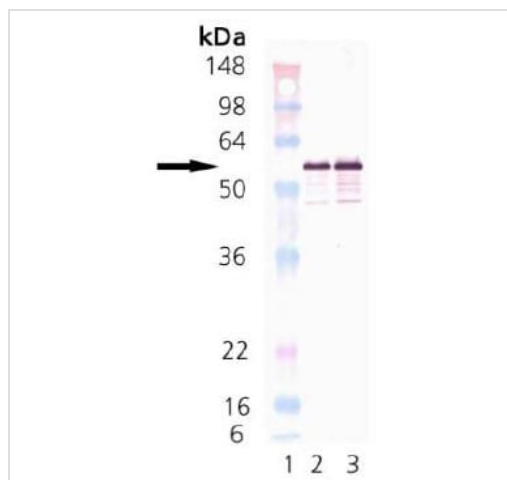
Lane 2: 0.5  $\mu$ g purified Calreticulin

Lane 3: 1  $\mu$ g purified Calreticulin

Lane 4: 2  $\mu$ g purified Calreticulin

Lane 5: 5  $\mu$ g purified Calreticulin

SDS-PAGE - Recombinant Human Calreticulin protein (ab91577)



**All lanes** : Recombinant Human Calreticulin protein (ab91577) at 1/1000 dilution

**Lane 1** : MW Marker

**Lane 2** : 50ng Calreticulin

**Lane 3** : 100ng Calreticulin

Western blot - Recombinant Human Calreticulin protein (ab91577)



Western blot - Recombinant Human Calreticulin protein (ab91577)

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

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