abcam

Product datasheet

Recombinant Human Calreticulin protein ab91577

2 References 3 Images

Description

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

Specifications

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

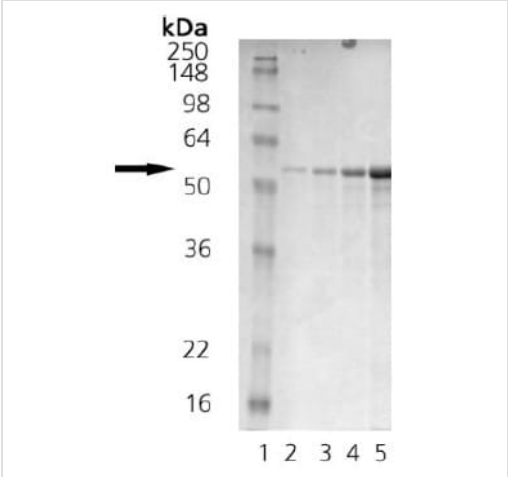
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. Constituents: 0.056% Calcium chloride, 5% Glycerol (glycerin, glycerine), 0.877% Sodium chloride, 0.606% Tris

General Info

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

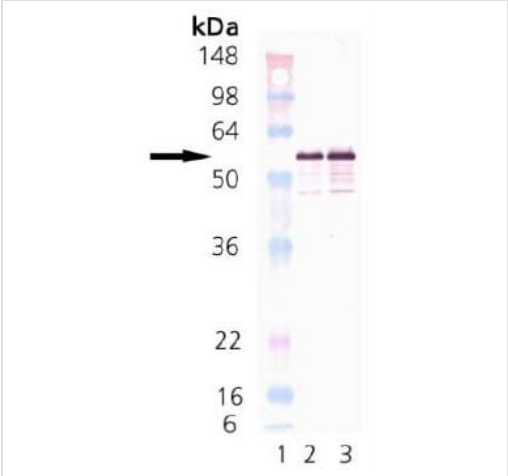
	monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export.
Sequence similarities	Belongs to the calreticulin family.
Domain	Can be divided into a N-terminal globular domain, a proline-rich P-domain forming an elongated 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 - Recombinant Human Calreticulin protein (ab91577)

SDS-PAGE Analysis of ab91577 stained with Coomassie Blue.
Lane 1: MW Marker
Lane 2: 0.5 µg purified Calreticulin
Lane 3: 1 µg purified Calreticulin
Lane 4: 2 µg purified Calreticulin
Lane 5: 5 µg purified Calreticulin



Western blot - 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)

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