Product datasheet

Recombinant Calreticulin protein ab15729

Overview

Product name: Recombinant Calreticulin protein
Protein length: Full length protein

Description

Nature: Recombinant
Source: Escherichia coli

Specifications

Our Abpromise guarantee covers the use of ab15729 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
ELISA

Form: Liquid

Additional notes: Purified full length rabbit Calreticulin protein. SwissProt ID P15253.

Preparation and Storage

Stability and Storage: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Constituent: PBS

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**

Coomassie stain of SDS-PAGE gel with ab15729.

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

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