Datasheet for ABIN7505163

Calnexin Protein (CANX) (AA 21-300) (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	Calnexin (CANX)
Protein Characteristics:	AA 21-300
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Calnexin protein is labelled with His tag.

Product Details

Sequence:	His 21-Lys 300
Characteristics:	A DNA sequence encoding the CANX/Calnexin protein (P27824) (His 21-Lys 300) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Calnexin (CANX)
Alternative Name:	CANX (CANX Products)
Background:	Abbreviation: CANX,Calnexin Target Synonym: Calnexin,IP90,Major Histocompatibility Complex Class I Antigen-Binding Protein p88,p90,CANX Background: Calnexin/CANX is a single-pass type I membrane protein which belongs to the

Target Details

	calreticulin family. It consists of a large N-terminal calcium-binding lumenal domain, a single transmembrane helix and a short (90 residues), acidic cytoplasmic tail. The function of calnexin is to retain unfolded or unassembled N-linked glycoproteins in the endoplasmic reticulum. Calnexin is a calcium-binding protein that interacts briefly with newly synthesized glycoproteins in the endoplasmic reticulum. Calnexin may act in assisting protein assembly and/or in the retention within the ER of unassembled protein subunits. Calnexin seems to play a major role in the quality control apparatus of the ER by the retention of incorrectly folded proteins. Calnexin dwindles with aging and might contribute to a cytoprotection in an array of human age-related diseases.
Molecular Weight:	Calculated MW: 30.69 kDa Observed MW: 42 kDa
UniProt:	P27824
Pathways:	MAPK Signaling, Thyroid Hormone Synthesis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months