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Datasheet for 200-401-E97

Calnexin-CT Antibody

Overview

Description:	Anti-Calnexin-CT (RABBIT) Antibody - 200-401-E97
Item No.:	200-401-E97
Size:	200 µg
Applications:	FC, IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat, Dog
Host Species:	Rabbit

Product Details

Background:	Calnexin, an abundant ~90kDa integral protein of the endoplasmic reticulum, is also referred to as IP90, p88 and p90. It consists of a large 50kDa N-terminal calcium-binding luminal domain, a single transmembrane helix and a short acidic cytoplasmic tail. Unlike its ER counterparts which have a KDEL sequence on their C-terminus to ensure ER retention, calnexin has positively charged cytosolic residues that do the same thing. Most ER proteins act as molecular chaperones and participate in the proper folding of polypeptides and their assembly into multi-subunit proteins. Calnexin together with calreticulin, plays a key role in glycoprotein folding and its control within the ER, by interacting with folding intermediates via their monoglycosylated glycans. Calnexin has also been shown to associate with the major histocompatibility complex class I heavy chains, partial complexes of the T cell receptor and B cell membrane immunoglobulin.
Synonyms:	CANX, CNX, IP90, P90, Calnexin, pp90
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CANX
Reactivity:	Human, Mouse, Rat, Dog
Immunogen Type:	Conjugated Peptide

Immunogen:	Calnexin-CT Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to the C-terminal region of dog calnexin. Identical to human, mouse and rat calnexin sequences over these residues.
Purity/Specificity:	Anti-Calnexin -CT Antibody was purified by Protein A chromatography. A BLAST analysis was used to suggest cross-reactivity with Calnexin -CT from Human, Monkey, Mouse, Rat, Bovine, Chicken (weak), Dog, Guinea pig, Hamster, Pig, Quail, Rabbit, Sheep, Drosophila (weak), and Xenopus (weak) based on 100% homology with the immunizing sequence. Cross-reactivity with Calnexin -CT from other sources has not been determined. Cell Signaling and Organelle Marker research.
Relevant Links:	• NCBI - NP_001003232.1 • GeneID - 403908 • UniProtKB - P24643

Application Details

Tested Applications:	FC, IF, IHC, IP, WB
Application Note:	Anti-Calnexin-CT Antibody is tested for use in WB, IP, IF microscopy, IHC-P, and Flow Cytometry. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	User Optimized
IHC:	User Optimized
IP:	User Optimized
WB:	1:2000

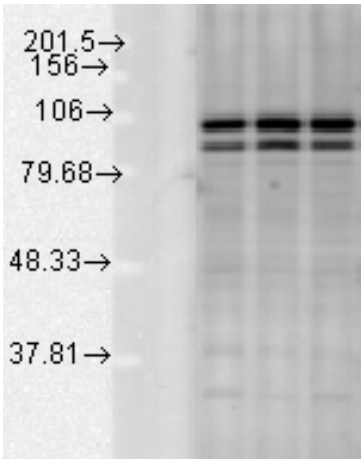
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of rabbit anti-Calnexin CT antibody. Lane 1: Rat tissue mix. Load: 10ug. Primary antibody: Calnexin-CT at 1:1000 overnight at 4°C. Secondary antibody: Goat anti-rabbit IgG HRP at 1:40,000 for 45 min at RT. Blocked: 5% Blotto overnight at 4°C. Predicated/observed size: 67.6kDa, 95kDa for Calnexin-CT.

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