Datasheet for ABIN2481642

anti-Calnexin antibody (C-Term) (HRP)

5 Images

Go to Product page

Overview

Quantity:	200 µg
Target:	Calnexin (CANX)
Binding Specificity:	C-Term
Reactivity:	Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calnexin antibody is conjugated to HRP
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Dog Calnexin C-terminal synthetic peptide conjugated to KLH. Identical to human, mouse and rat calnexin sequences over these residues.
Specificity:	Detects the C-terminal domain of Calnexin ~90 kDa. Weak detection in Chicken, Drosophila, and Xenopus tissues.
Cross-Reactivity:	Chicken, Cow, Dog, Drosophila melanogaster, Guinea Pig, Hamster, Human, Monkey, Mouse, Pig, Quail, Rabbit, Rat, Sheep, Xenopus laevis
Purification:	Protein A Purified

Target Details

Target:	Calnexin (CANX)

Target Details

Alternative Name:	Calnexin (CANX Products)
Background:	Calnexin, an abundant ~90 kDa integral protein of the endoplasmic reticulum, is also referred to as IP90, p88 and p90 (1). It consists of a large 50 kDa N-terminal calcium-binding luminal domain, a single transmembrane helix and a short acidic cytoplasmic tail (2, 3). Unlike its ER counterparts which have a KDEL sequence on their C-terminus to ensure ER retention (4), calnexin has positively charged cytosolic residues that do the same thing (3). 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 mono-glycosylated glycans (5, 6). 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 (7).
Gene ID:	403908
NCBI Accession:	NP_001003232
UniProt:	P24643
Pathways:	MAPK Signaling, Thyroid Hormone Synthesis

Application Details

Application Notes:	• WB (1:2000) • ICC/IF (1:100) • IHC (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	A 1:2000 dilution of ABIN2481642 was sufficient for detection of Calnexin in 10 µg of HeLa cell lysate by ECL immunoblot analysis.
Restrictions:	For Research Use only

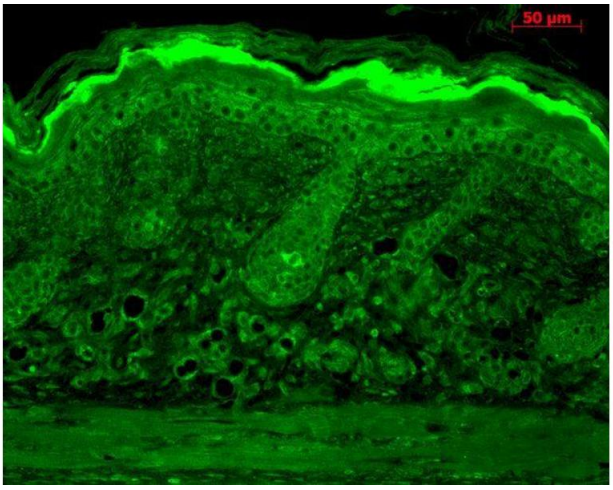
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.2, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide

Handling

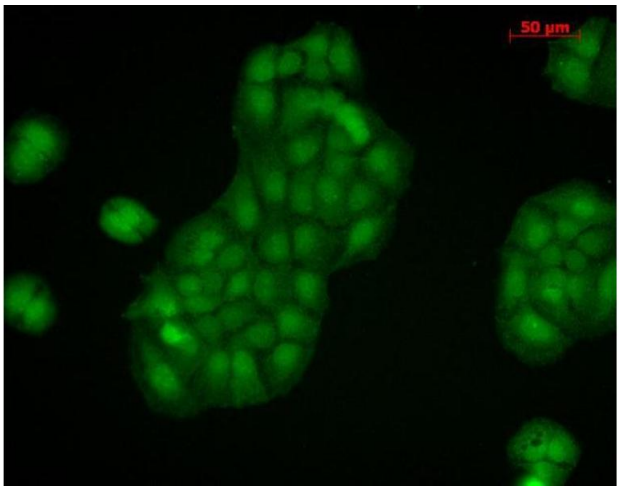
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



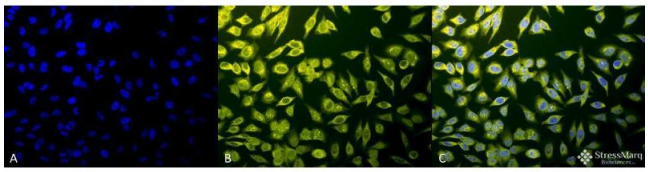
Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-Calnexin-CT Polyclonal Antibody . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-Calnexin-CT Polyclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: Hair Follicles, Basal cells in epidermis, and second layer of epidermis.



Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Calnexin-CT Polyclonal Antibody . Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol at -20C for 10 minutes. Primary Antibody: Rabbit Anti-Calnexin-CT Polyclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit at 1:50 for 1-2 hours at RT in dark. Localization: Nuclear staining, cytoplasmic staining.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Calnexin-CT Polyclonal Antibody . Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Calnexin-CT Polyclonal Antibody at 1:80 for 12 hours at 4°C. Secondary Antibody: R-PE Goat Anti-Rabbit (yellow) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum membrane. Melanosome. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-Calnexin-CT Antibody. (C) Composite. Heat Shocked at 42°C for 1h.

Please check the product details page for more images. Overall 5 images are available for ABIN2481642.