Rabbit Calnexin-NT Polyclonal Antibody | anti-CANX antibody

Calnexin-NT Antibody: RPE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103688	**Rabbit**	**Human, Mouse, Rat, Bovine, Chicken, Dog, Guinea Pig, Hamster, Monkey, Pig, Rabbit, Sheep, Xenopus.**	**Immunofluorescence, Immunocytochemistry, Immunoprecipitation, Western Blot**

PRODUCT SYNONYMS

Calnexin-NT; Polyclonal Antibody; Calnexin-NT Antibody: RPE; CANX; CNX; IP90; P90; anti-CANX antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Chicken, Dog, Guinea Pig, Hamster, Monkey, Pig, Rabbit, Sheep, Xenopus.
Clonality	Polyclonal
Form/Format	Rabbit Antiserum
Sequence Length	593
Applicable Applications for anti-CANX antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IP (Immunoprecipitation), WB (Western Blot)
Conjugate	RPE
Storage Buffer	Rabbit Antiserum
Preparation and Storage	-20 degree C

IMAGES

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Tissue: colon colitis. Species: Mouse. Fixation: Formalin. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:100000 for 12 hours at 4 degree C. Secondary Antibody: Biotin Goat Anti-Rabbit at 1:2000 for 1 hour at RT. Counterstain: Methyl Green at 200uL for 2 min at RT. Localization: Inflammatory cells.

WB (Western Blot)
Western blot analysis of Rat tissue mix showing detection of Calnexin protein using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Load: 15 ugprotein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:5000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.

IHC (Immunohistochemisry)
Immunohistochemistry analysis using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: Upper layer staining and few basal cell cytoplasmic staining.

WB (Western Blot)
Western blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of Calnexin protein using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:1000.

ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Tissue: Cervical cancer cell line (HeLa). Species: Human. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:100. Secondary Antibody: FITC Goat Anti-Rabbit (green).

ADDITIONAL INFORMATION

Related Product Information for anti-CANX antibody	**Background Info:** Detects ~90kDa. **Scientific Background:** Calnexin, an abundant ~90kDa integral protein of the endoplasmic reticulum, is also referred to as IP90, p88 and p90 (1). It consists of a large 50kDa 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 mulit-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).
Product Categories/Family for anti-CANX antibody	Cell Signaling; Organelle Markers
References	1. Rajagopalan S., Xu Y., and Brenner M.B. (1994) Science 263(5145): 387-90. 2. Tjoelker L.W., et al. (1994) Biochemistry 33: 3229. 3. Schrag J. et al. (2001) Molecular Cell 8(3): 633- 644. 4. Janiszewski M. (2005) J. Biol Chem. 280(49): 40813-40819. 5. Elagoz A., Callejo M., Armstrong J., and Rokeach L. A. (1999) J. Cell Sci. 112: 4449-4460. 6. Otteken A. and Moss B. (1996) J Bio Chem. 271(1): 97-103. 7. Galvin K. et al. (1992) Proc Natl Acad Sci USA. 89(18): 8452-6. 8. Raggo C., et al. (2002) Mol Cell Biol. 22: 5639- 5649. 9. Rubio M.E., and Wenthold R.J. (1999) J Neurochem. 73: 942-948.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50979014
NCBI GeneID	403908
NCBI Accession #	NP_001003232.1
NCBI GenBank Nucleotide #	NM_001003232.1
UniProt Accession #	P24643; P79140
Molecular Weight	67,603 Da
NCBI Official Full Name	calnexin
NCBI Official Symbol	CANX
NCBI Official Synonym Symbols	PP90
NCBI Protein Information	calnexin
UniProt Protein Name	Calnexin
UniProt Gene Name	**CANX**
UniProt Entry Name	CALX_CANFA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.