Datasheet for ABIN6940953

# anti-Calnexin antibody (N-Term)

5 Images

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | Calnexin (CANX) |
| Binding Specificity: | AA 1-300, N-Term |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Calnexin antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Coating (Coat), Staining Methods (StM) |

## Product Details

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| Immunogen: | Recombinant N-terminal fragment of human Calnexin protein (around aa 1-300) (exact sequence is proprietary) |
| Clone: | CANX-1543 |
| Isotype: | IgG1 kappa |
| Specificity: | It recognizes a protein of 90 kDa, which is identified as Calnexin. Secretory and transmembrane proteins are synthesized on polysomes and translocate into the endoplasmic reticulum (ER) where they are often modified by the formation of disulfide bonds, amino-linked glycosylation and folding. To help proteins fold properly, the ER contains a pool of molecular chaperones including calnexin. It is a calcium-binding, endoplasmic reticulum (ER)-associated protein that interacts transiently with newly synthesized N-linked glycoproteins, facilitating protein folding |

## Product Details

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| | and assembly. It may also play a central role in the quality control of protein folding by retaining incorrectly folded protein subunits within the ER for degradation. |
| Purification: | Purified by Protein A/G |

## Target Details

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| Target: | Calnexin (CANX) |
| Alternative Name: | CANX (CANX Products) |
| Molecular Weight: | 90kDa |
| Gene ID: | 821 |
| UniProt: | P27824 |
| Pathways: | MAPK Signaling, Thyroid Hormone Synthesis |

## Application Details

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| Application Notes: | Positive Control: HeLa, MCF-7 or U2OS cells. Kidney or small intestine.<br>Known Application: ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined. |
| Restrictions: | For Research Use only |

## Handling

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| Concentration: | 200 µg/mL |
| Buffer: | 10 mM PBS with 0.05 % BSA & 0.05 % azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-80 °C |
| Storage Comment: | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required. |

## Handling

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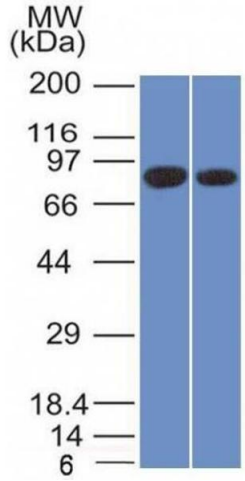
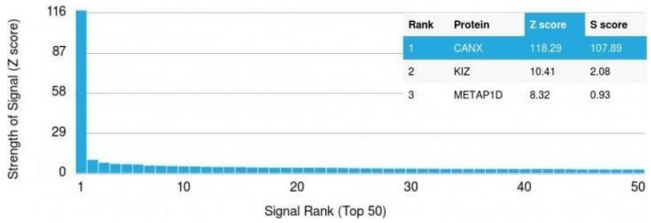
| Expiry Date: | 24 months |

## Images



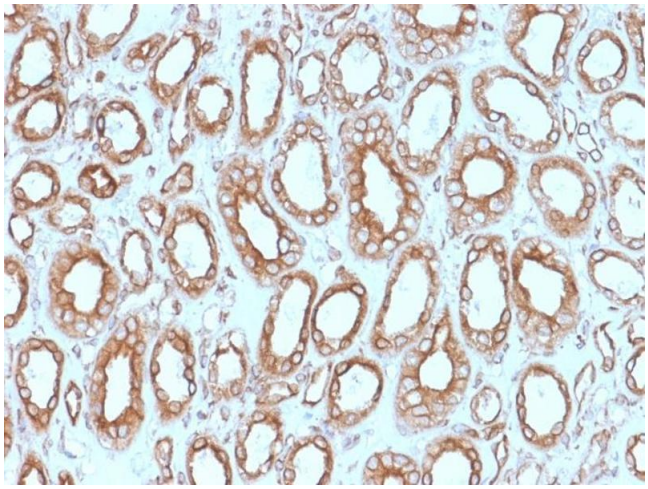

### Western Blotting

**Image 1.** Western Blot of Analysis of PANC1 and MCF-7 cell lysate using Calnexin Mouse Monoclonal Antibody (CANX/1543).




### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using Calnexin Mouse Monoclonal Antibody (CANX/1543). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



**Immunohistochemistry**

**Image 3.** Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with Calnexin Mouse Monoclonal Antibody (CANX/1543).

Please check the product details page for more images. Overall 5 images are available for ABIN6940953.