# Calnexin (Endoplasmic Reticulum Marker) Antibody

Mouse Monoclonal Antibody [Clone CANX/1543]

| Catalog No | Format | Size |
|---|---|---|
| 821-MSM3-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 821-MSM3-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 821-MSM3-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

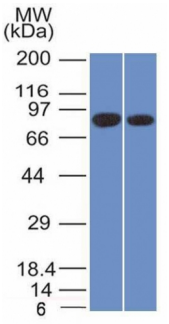
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

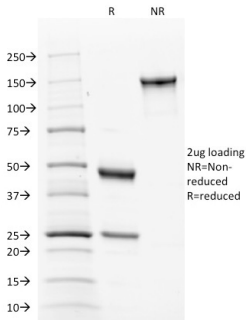
| | |
|---|---|
| **Clone** | CANX/1543 |
| **Gene Name** | CANX |
| **Immunogen** | Recombinant N-terminal fragment of human Calnexin protein (around aa 1-300) (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG1 / Kappa |
| **Mol. Weight of Antigen** | ~90kDa |
| **Cellular Localization** | Endoplasmic reticulum, Endoplasmic reticulum membrane, Melanosome |
| **Species Reactivity** | Human |
| **Positive Control** | HeLa, MCF-7 or U2OS cells. Kidney or small intestine. |

**Optimal dilution for a specific application should be determined.*

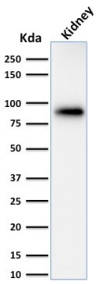
## Product Images for Calnexin (Endoplasmic Reticulum Marker) Antibody



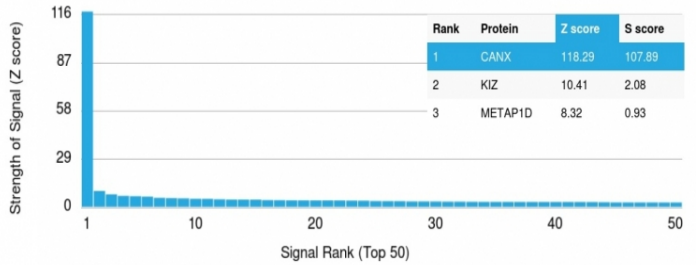

Western Blot of Analysis of PANC1 and MCF-7 cell lysates using Calnexin Mouse Monoclonal Antibody (CANX/1543).



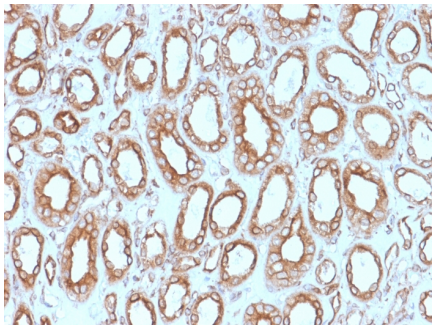

SDS-PAGE Analysis of Purified Calnexin Mouse Monoclonal Antibody (CANX/1543). Confirmation of Integrity and Purity of Antibody.




Western Blot of Analysis of human kidney tissue lysate using Calnexin Mouse Monoclonal Antibody (CANX/1543).




Analysis of Protein Array containing more than 19,000 full-length human proteinsusing 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.



Formalin-fixed, paraffin-embedded human renal cell carcinoma stained with Calnexin Mouse Monoclonal Antibody (CANX/1543). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

## Specificity & Comments

It recognizes a protein of 90kDa, 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 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.

## Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

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.

## Research Areas

Cellular Markers and Tags, Cytokine Signaling, Immunology, Infectious Disease

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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