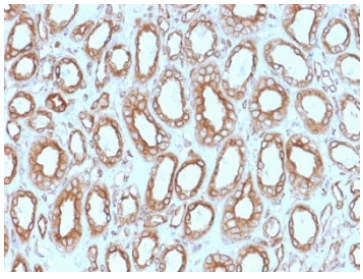
Calnexin Antibody [clone CANX/1543] (V3795)

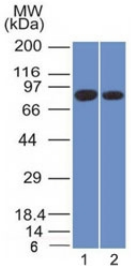
Catalog No.	Formulation	Size
V3795-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3795-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3795SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

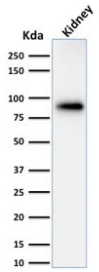
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CANX/1543
Purity	Protein G affinity chromatography
UniProt	P27824
Localization	Cytoplasmic
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Calnexin antibody is available for research use only.



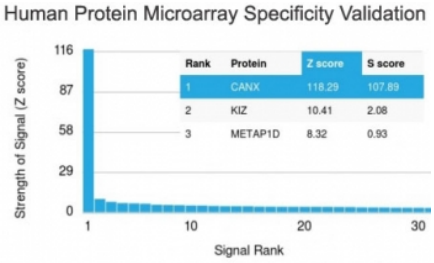
IHC testing of FFPE human renal cell carcinoma with Calnexin antibody (clone CANX/1543). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



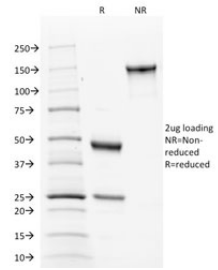
Western blot testing of human 1) PANC-1 and 2) MCF7 cell lysate with Calnexin antibody (clone CANX/1543). Predicted molecular weight ~68 kDa but routinely observed at ~90 kDa.



Western blot testing of human kidney lysate with Calnexin antibody (clone CANX/1543). Predicted molecular weight ~68 kDa but routinely observed at ~90 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Calnexin antibody (clone CANX/1543). These results demonstrate the foremost specificity of the CANX/1543 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Calnexin antibody (clone CANX/1543) as confirmation of integrity and purity.

Description

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.

Application Notes

Titering of the Calnexin antibody may be required for optimal performance.

Immunogen

A portion of amino acids 1-300 from the human protein was used as the immunogen for the Calnexin antibody.

Storage

Store the Calnexin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).