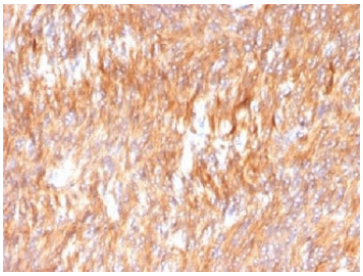
Calnexin Antibody [clone CANX/1541] (V3199)

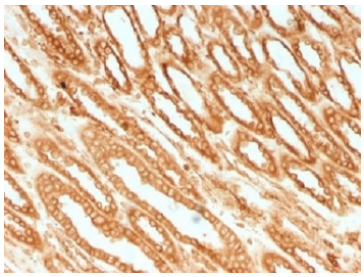
Catalog No.	Formulation	Size
V3199-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3199-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3199SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

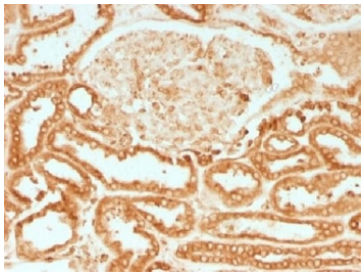
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CANX/1541
Purity	Protein G affinity chromatography
UniProt	P27824
Localization	Cytoplasmic
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Immunofluorescence : 1-2ug/ml
Limitations	This Calnexin antibody is available for research use only.



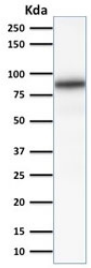
IHC testing of FFPE human small intestine carcinoma with Calnexin antibody. HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 10-20 min.



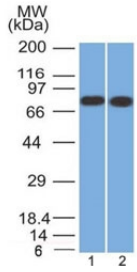
IHC testing of FFPE human renal cell carcinoma with Calnexin antibody. HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 10-20 min.



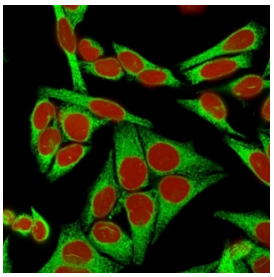
IHC testing of FFPE human renal cell carcinoma with Calnexin antibody. HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 10-20 min.



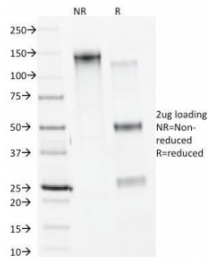
Western blot testing of human kidney lysate with Calnexin antibody (clone CANX/1541). Predicted molecular weight ~68 kDa but routinely observed at ~90 kDa.



Western blot testing of human 1) HeLa and 2) MCF7 cell lysate with Calnexin antibody (clone CANX/1541). Predicted molecular weight ~68 kDa but routinely observed at ~90 kDa.



Immunofluorescent staining of human HeLa cells with Calnexin antibody (green) (clone CANX/1541). RedDot used as nuclear counterstain (red).



SDS-PAGE analysis of purified, BSA-free Calnexin antibody (clone CANX/1541) 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 partial human recombinant 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).