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36-3412: Anti-Calnexin (Endoplasmic Reticulum Marker) Monoclonal Antibody(Clone: CANX/1543)

Clonality :	Monoclonal
Clone Name :	CANX/1543
Application :	ELISA,WB,IHC
Reactivity :	Human
Gene :	CANX
Gene ID :	821
Uniprot ID :	P27824
Alternative Name :	Calnexin; CANX; CNX; IP90; Major histocompatibility complex class I antigen-binding protein p88; P90
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant N-terminal fragment of human Calnexin protein (around aa 1-300) (exact sequence is proprietary)

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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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 condition :	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.

Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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&degC followed by cooling at RT for 20 minutes);

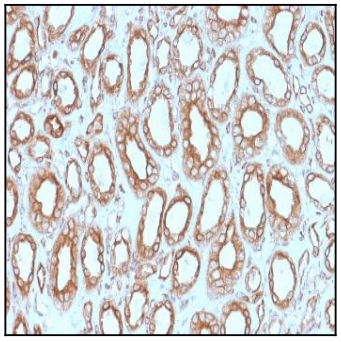

Fig. 1: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with Calnexin Mouse Monoclonal Antibody (CANX/1543).

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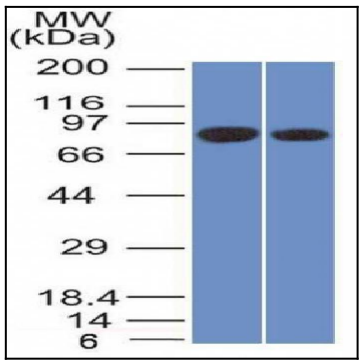

Fig. 2: Western Blot of Analysis of PANC1 and MCF-7 cell lysate using Calnexin Mouse Monoclonal Antibody (CANX/1543).

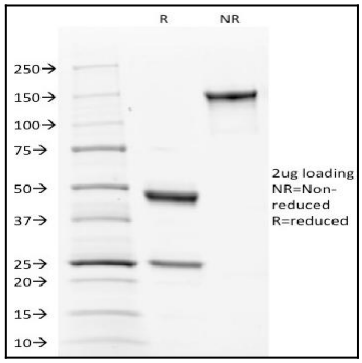

Fig. 3: SDS-PAGE Analysis Purified Calnexin Mouse Monoclonal Antibody (CANX/1543). Confirmation of Integrity and Purity of Antibody.

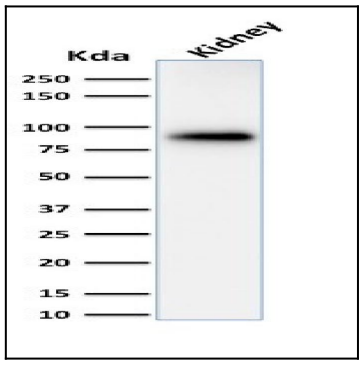

Fig. 4: Western Blot of Analysis of human Kidney lysate using Calnexin Mouse Monoclonal Antibody (CANX/1543).

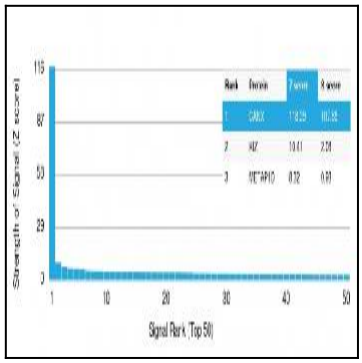

Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using Calnexin Mouse Monoclonal Antibody (CANX/1543). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary 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.