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Calnexin (m): 293T Lysate: sc-125090

BACKGROUND

Calnexin and Calregulin (also called calreticulin) are calcium-binding proteins that are localized to the endoplasmic reticulum, Calnexin to the membrane and Calregulin to the lumen. Calnexin is a type I membrane protein that interacts with newly synthesized glycoproteins in the endoplasmic reticulum. It may play a role in assisting with protein assembly and in retaining unassembled protein subunits in the endoplasmic reticulum. Calregulin has both low- and high-affinity calcium-binding sites. Neither Calnexin nor Calregulin contains the calcium-binding "E-F hand" motif found in calmodulins. Calnexin and Calregulin are important for the maturation of glycoproteins in the endoplasmic reticulum and appear to bind many of the same proteins.

REFERENCES

1. Smith, M.J. and Koch, G.L. 1989. Multiple zones in the sequence of calreticulin (CRP55, Calregulin, HACBP), a major calcium-binding ER/SR protein. *EMBO J.* 8: 3581-3586.
2. David, V., Hochstenbach, F., Rajagopalan, S. and Brenner, M.B. 1993. Interaction with newly synthesized and retained proteins in the endoplasmic reticulum suggests a chaperone function for human integral membrane protein IP90 (Calnexin). *J. Biol. Chem.* 268: 9585-9592.
3. Tjoelker, L.W., Seyfried, C.E., Eddy, R.L., Jr., Byers, M.G., Shows, T.B., Calderon, J., Schreiber, R.B. and Gray, P.W. 1994. Human, mouse and rat Calnexin cDNA cloning: identification of potential calcium-binding motifs and gene localization to human chromosome 5. *Biochemistry* 33: 3229-3236.
4. Breier, A. and Michalak, M. 1994. 2,4,6-trinitrobenzenesulfonic acid modification of the carboxyl-terminal region (C-domain) of calreticulin. *Mol. Cell. Biochem.* 130: 19-28.
5. Wada, I., Imai, S., Kai, M., Sakane, F. and Kanoh, H. 1995. Chaperone function of calreticulin when expressed in the endoplasmic reticulum as the membrane-anchored and soluble forms. *J. Biol. Chem.* 270: 20298-20304.

CHROMOSOMAL LOCATION

Genetic locus: Canx (mouse) mapping to 11 B1.3.

PRODUCT

Calnexin (m): 293T Lysate represents a lysate of mouse Calnexin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Calnexin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Calnexin antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.