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HUMAN C-CBL AND CBL-B PROTEINS ARE MORE HIGHLY EXPRESSED IN THE THYMUS COMPARED TO THE TESTIS

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Background & Objectives: c-Cbl and Cbl-b are two members of the Cbl family proteins, with a crucial role of down regulation of tyrosine kinase receptors. They act as E3 ubiquitin ligases and are multivalent adaptor proteins, making them important in maintaining homeostasis in the body. This study investigated the expression level in thymus and testis in normal conditions.

Methods: The expression level was assessed by immunochemistry of tissue microarrays of normal thymus and testis biopsies.

Results: Cbl-b and c-Cbl proteins were found to be highly expressed in normal testis and thymus, indicated as yellowish brown granules in the cyto-membrane and cytoplasm compared to controls. The c-Cbl appears to be more highly expressed than the Cbl-b in the thymus, while c-Cbl appears slightly stronger than Cbl-b in the testis. The thymus was found with a higher grade compared to the testis.

Conclusion: In this work we concluded, that in normal condition, thymus tissue expresses more Cbl family proteins (c-Cbl and Cbl-b) than the testis tissue in humans.

BIOGRAPHY

Mazo Kone has initiated to the world of research during both his Bachelor and Master. Time during which, he received basics training in Biology of Cancer, Physio-Pathology of Metabolic diseases, Infectious diseases and many more. However he quickly developed an interest for the molecular biology of cancer, physiology of the cell and infectious diseases. He has worked on the oncogenic properties of human c-Cbl and Cbl-b as master project work. Currently, he is doing his PhD in Cell Biology and Genetics at the University of Ibadan in Nigeria. His research is on congenital infections in pregnancy both in Mali and Nigeria. In general his research works are axed on molecular biology of cancer and infectious diseases. He is the Leader of Rachetes Algeria since 2012, the promoter and the Manager of the biomedical researcher project.

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