

TRIM

The tripartite motif (TRIM) family is a large group of proteins characterized by the presence of a conserved tripartite motif domain consisting of a **RING** (Really Interesting New Gene) domain, a B-box zinc finger domain, and a coiled-coil domain. These domains are involved in various cellular functions such as ubiquitin E3 ligase activity, protein-protein interactions, and regulation of gene expression.

The TRIM family includes more than 70 members in humans and is involved in a wide range of cellular processes such as antiviral immunity, cell differentiation, and apoptosis. Some TRIM proteins, such as TRIM5alpha, TRIM21, and TRIM25, have been shown to play important roles in the innate immune response to viral infections by targeting viral proteins for degradation or by activating signaling pathways that lead to the production of antiviral cytokines.

Mutations in TRIM proteins have been linked to various human diseases, including cancer, autoimmune disorders, and developmental disorders. The diverse functions and clinical implications of TRIM proteins make them an important subject of research in the field of molecular biology and medicine.

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