

Open Peer Review on Qeios

BIR Domain

National Cancer Institute

Source

National Cancer Institute. BIR Domain. NCI Thesaurus. Code C13906.

Containing perfectly conserved histidine and cysteines residues. the BIR domain is about 70 residues long arranged in tandem repeats separated by a linker of variable length. Found in IAP (Inhibitor of Apoptosis Protein) Family proteins, it seems to confer cell death-preventing activity. Except NAIP, family members typically contain two or three BIR repeats and a C-terminal RING finger. A second group of BIR-domain-containing proteins (BIRPs) include mammalian Bruce and Survivin proteins, as well as BIR-containing proteins in yeasts and C. elegans. Survivin-like BIRPs regulate cytokinesis and mitotic spindle formation. (NCI)

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