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SANT Domain

National Cancer Institute

Source

National Cancer Institute. *SANT Domain*. NCI Thesaurus. Code C13663.

The SANT domain is found in several transcriptional regulatory proteins identified through consistent homology to the c-MYB repeat DNA binding domain, suggesting that SANT domains also bind DNA. Folded into three alpha helices as doublets or singlets in many proteins, the SANT domain family specifically recognizes the sequence YAAC(G/T)G. The SANT domain is a repeated motif in N-CoR, the nuclear receptor co-repressor. Single copies of SANT occur in yeast nuclear chromatin remodeling proteins SWI3 (SWI/SNF transcription subunit), ADA2 (ADA adaptor/HAT complex), and a TFIIB transcription subunit. SANT domains may mediate functional interactions with histone N-terminal tails. (NCI)