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PRKAR1A wt Allele

National Cancer Institute

Source

National Cancer Institute. *PRKAR1A wt Allele*. NCI Thesaurus. Code C97743.

Human PRKAR1A wild-type allele is located within 17q23-q24 and is approximately 21 kb in length. This allele, which encodes cAMP-dependent protein kinase type I-alpha regulatory subunit protein, is involved in the modulation of protein kinase A activation. Mutation of the gene is associated with Carney complex type 1, intracardiac myxoma, and primary pigmented nodular adrenocortical disease type 1. Papillary thyroid carcinoma is associated with a chromosomal translocation of this gene and the RET gene. A chromosomal aberration affecting this gene and the RARA gene is associated with acute promyelocytic leukemia.