

GOLGA7

GeneCards Summary for GOLGA7 Gene

GOLGA7 (Golgin A7) is a Protein Coding gene. Among its related pathways are Innate Immune System. An important paralog of this gene is GOLGA7B. UniProtKB/Swiss-Prot for GOLGA7 Gene

May be involved in protein transport from Golgi to cell surface. The ZDHHC9-GOLGA7 complex is a palmitoyltransferase specific for HRAS and NRAS. GOGA7_HUMAN,Q7Z5G4

MicroRNAs bind to the 3' untranslated regions of mRNAs, affecting translation, tumorigenesis, and apoptosis.

A study of Zhou et al. evaluated the role of TYMS (rs1059394, C > T, and rs2847153, G > A), RYR3 (rs1044129, G > A), KIAA0423 (rs1053667, T > C), and GOLGA7 (rs11337, G > T) polymorphisms for assessment of glioma risk and prognosis among the Chinese Han population. Five single nucleotide polymorphisms were assessed in 605 glioma patients and 1,300 controls. They found a significant correlation between rs1059394 and glioma susceptibility in the homozygote and dominant genetic models (TT versus CC, odds ratio [OR] = 0.71, 95% confidence interval [CI] = 0.52-0.97, p = 0.03; CT+TT versus CC, OR = 0.74, 95% CI = 0.55-0.99, p = 0.04). The results of the Kaplan-Meier and log-rank tests revealed that the rs11337 GG genotype correlated with better overall survival of glioma patients (p = 0.017) than the GT genotype. Multivariate Cox regression analysis results also showed that the rs11337 GT genotype correlated with worse overall survival (p = 0.017, hazard ratio [HR] = 1.25, 95% CI = 1.04-1.5) than the GG genotype. These results suggest that GOLGA7 (rs11337) polymorphism may play a role in the prognosis of glioma patients and that TYMS (rs1059394) is associated with glioma risk ¹⁾.

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Zhou L, Dong S, Deng Y, Yang P, Zheng Y, Yao L, Zhang M, Yang S, Wu Y, Zhai Z, Li N, Kang H, Dai Z. GOLGA7 rs11337, a Polymorphism at the MicroRNA Binding Site, Is Associated with Glioma Prognosis. Mol Ther Nucleic Acids. 2019 Aug 14;18:56-65. doi: 10.1016/j.omtn.2019.08.006. [Epub ahead of print] PubMed PMID: 31525662.

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