中国人胃癌和正常组织基因组DNA中癌基因Ha-ras的限制性片段长度 多态性研究

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本文报道以PHS-49为探针,分析了中国人群中36例胃癌患者组织和25位正常人体组织基因组 DNA中Ha-ras ▶加入我的书架 基因的BamHI限制性片段长度多态性(RFLPs)。发现了10种不同长度的片段和18 种基因型。其中4种小于6kb的 BamHI片段是迄今国外未见报道的,这可能是中国人群遗传多 态性的一个特征。此外,在胃癌组织中发现Ha-ras 的一些稀有等位基因和基因型的频率明显 高于正常人群。对两名胃癌患者家系中的11名成员也作了RFLPs分析, 发现有些成员出现3条 和4条限制性片段的杂合个体,表明这些个体的染色体上含有的Ha-ras基因不只一份拷贝。 对上述现象的可能原因作了分析和讨论。

人Ha-ras基因,限制性片段长度多态性,家系分析,胃癌 关键词 分类号

Study on Ha-ras RFLPs in Gastric Carcinoma and Normal Tissue DNAs of Chinese Ind ividuals

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Abstract

By using recombinant plasmid PHS-49 as a probe, BamHI restriction fragment length polymorphisms (RFLPs) was studied in tumour DNAs of 36 gastric carcinoma patien ts and normal tissue DNAs of 25 unaffected Chinese individuals. Ten alleles and e ighteen genotypes for Ha-ras gene were found. Four "rare" restriction fragments of size less than 6 kilobase pairs (kb) are first reported for Ha-ras locus in pr esent paper, we inferred that these alleles might be one of the characteristics o f genetic polymorphisms in Chinese population. Moreover, the frequency of some "ra re" alleles and genotypes occurred in gastric carcinoma samples is significantly higher than that occurred in normal individuals. The results of pedigree analysis for two patients showed that some heterozygotes carried three of four alleles. It suggested that there may be more than one copy of Ha-ras gene sequence existe d in a chromosome. The possible causes of the phenomenon mentioned above were dis cussed.

Key words human Ha-ras gene restriction fragment length polymorphism (RFLP) gastric carcin oma pedigree analysis

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