

Gene Section

Short Communication

CAGE1 (cancer-associated gene-1)

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Identity

Other names: CAGE-1 (cancer-associated gene-1)

HGNC (Hugo): CAGE1

Location: 6p24.3

Location (base pair): 7311

DNA/RNA

Description

Spans 63 kb; 11 exons; ORF: 1920 bp.

Protein

Description

639 amino acids; 73 kDa; carry 2 consensus glycosylation sites, 10 PKC dependent phosphorylation sites.

Expression

Testis-restricted in normal tissues; wide/high expression in various cancer tissues (lung, cervix, stomach) CAG1 is a probable member of the cancer/testis antigen family.

Localisation

Mainly nuclear.

Function

May be involved in signaling pathway.

Homology

With monkey genes with testis specific expression.

Mutations

Somatic

May be associated with tumor progression.

References

Park S, Lim Y, Lee D, Cho B, Bang YJ, Sung S, Kim HY, Kim DK, Lee YS, Song Y, Jeoung DI. Identification and characterization of a novel cancer/testis antigen gene CAGE-1. *Biochim Biophys Acta*. 2003 Jan 27;1625(2):173-82

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