uterine cancer, endometrial cancer, vagina cancer, vulva cancer, acoustic neuroma, mycosis fungoides, insulinoma, carcinoid syndrome, somatostatinoma, gum cancer, heart cancer, lip cancer, meninges cancer, mouth cancer, nerve cancer, palate cancer, parotid gland cancer, peritoneum cancer, pharynx cancer, pleural cancer, salivary gland cancer, tongue cancer and tonsil cancer.

21. The use according to claim 19 or 20, characterized in that the subject is a human or an animal.

22. The use according to any one of claims 19-21, characterized in that the medicament is to be administrated through an intratumoral, intramuscular, intra-arterial, intravenous, intrapleural, intravesicular, intracavitary or peritoneal injection, or an oral administration.

23. The use according to any one of claims 19-22, characterized in that oncolytic human adenoviral vectors or pharmaceutical compositions are to be administered several times during the treatment period.

24. The use according to any one of claims 19-23, characterized in that the medicament is to be combined with administration of concurrent radiotherapy or radioiodide to a subject.

25. The use according to any one of claims 19-24, characterized in that the medicament is to be combined with administration of concurrent chemotherapy to a subject.

26. The use according to any one of claims 19-25, characterized in that the subject has high amounts of anti-Ad5 neutralizing antibodies.

27. The use according to any one of claims 19-26, characterized in that the subject has previously been treated with Ad5.

28. A method of producing an adenoviral vector according to any one of claims 1-15, characterized by comprising:

i) providing a DNA vector comprising at least partial Ad3 DNA and one or several tumor or tissue specific promoters and/or optionally one or several transgenes, and

ii) inserting the remainder of the Ad3 genome and optionally one or several tumor or tissue promoters and/or optionally one or several transgenes to the vector.

29. A method according to claim 28, characterized in that a plasmid construct is used for placing a transgene(s) to the adenoviral vector.

30. A method according to claim 28 or 29, characterized in that the adenoviral vector is produced in a cell line.

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