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(54) Title: T-CELL RECEPTOR AGAINST mKRAS7-16 G12V AND G12C

(57) Abstract: The present invention relates to a TCR characterized by its CDR sequences of the α chain variable region and the β chain variable region and by its antigenic specificity to (a) particular mutated KRAS epitope(s) or a fragment thereof presented in the context of a MHC class I molecule. The present invention further relates to a nucleic acid, a vector, and a host cell comprising the abovementioned. The present invention further relates to a method for obtaining said TCR and to a pharmaceutical or diagnostic composition. The invention also relates to the abovementioned for use as a medicament or for use in a method of diagnosing, detecting, preventing, and/or treating cancer. Further, the invention relates to a method of detecting the presence of a cancer in a subject *in vitro*, by applying within said method said TCR, said nucleic acid, said vector, said host cell, and/or said pharmaceutical composition, and the use of said TCR, said nucleic acid, and/or said vector for generating modified lymphocytes. Finally, the present invention relates to a kit.

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