

Title (en)
CHIMERIC ANTIGEN RECEPTORS WITH ENHANCED NFkB SIGNALING

Title (de)
CHIMÄRE ANTIGENREZEPTOREN MIT VERBESSERTER NFkB-SIGNALGEBUNG

Title (fr)
RÉCEPTEURS ANTIGÉNIQUES CHIMÉRIQUES À SIGNALISATION DE NFkB AMÉLIORÉE

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Application
EP 18859613 A 20180911

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Abstract (en)
[origin: WO2019060174A1] Disclosed herein are chimeric antigen receptor (CAR) polypeptides, which can be used with adoptive cell transfer to target and kill cancers, that comprise a co-stimulatory signaling region having a mutated form of a cytoplasmic domain of CD28 that enhances CAR-T cell function, a mutated form of a cytoplasmic domain of 41BB that enhances nuclear factor kappaB (NFkB) signaling, or a combination thereof. Also disclosed are immune effector cells, such as T cells or Natural Killer (NK) cells, that are engineered to express these CARs. Also disclosed are immune effector cells co-expressing a CAR and one or more TRAF proteins. Therefore, also disclosed are methods of providing an anti-tumor immunity in a subject with a tumor associated antigen-expressing cancer that involves adoptive transfer of the disclosed immune effector cells.

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