

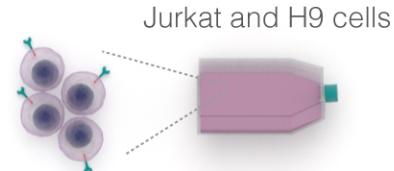
The CTLA4-CD28 gene fusion is likely a major contributor to T cell lymphoma pathogenesis and represents a potential target for anti-CTLA4 cancer immunotherapy



CTLA4-CD28 fusion gene
arising from copy number duplication



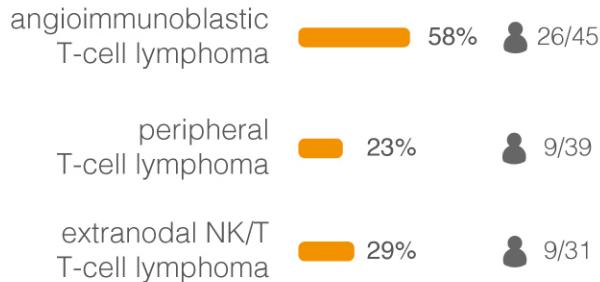
CTLA4-CD28 fusion gene
in vitro ectopic expression



↑ proliferation

↑ AKT and ERK phosphorylation

☒ CTLA4-CD28 gene fusion frequency
RT-PCR and Sanger sequencing



Targeted resequencing



☒ Mutation profile of 70 lymphoma-related genes

