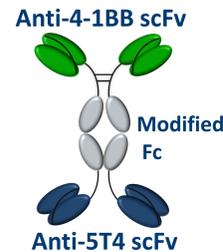


Introduction

- 4-1BB (CD137) is an activation-induced costimulatory immune receptor expressed on tumor-infiltrating T cells and NK cells
- Stimulation of 4-1BB leads to enhanced proliferation, increased survival, intensified cytolytic activity, and induced IFN- γ production of T and NK cells
- 4-1BB-targeting immunotherapies have shown promising anti-tumor effects clinically however, a monospecific 4-1BB agonist induced dose-limiting hepatic toxicities
- 5T4 is a tumor-associated antigen expressed in a variety of malignancies, including NSCLC, head and neck, mesothelioma, renal, pancreas, bladder, breast, colorectal, gastric, ovarian and cervical cancers

About ALG.APV-527

- ALG.APV-527 is an ADAPTIR™ bispecific therapeutic containing two sets of scFv binding domains targeting 5T4 and 4-1BB, linked to an effector-null Ig Fc domain
- The scFvs originate from the Alligator Gold® human scFv library (Alligator Bioscience) and have been optimized for use in the bispecific ADAPTIR™ format (Aptevo Therapeutics)
- ALG.APV-527 features target-driven T cell stimulation, optimized stability, good manufacturing properties with potential for better risk-benefit in humans than other monospecific 4-1BB antibodies
- ALG.APV-527 is cross-reactive to 4-1BB and 5T4 from cynomolgus monkey. It enhances stimulation of CD3-activated human and cynomolgus T cells *in vitro*
- ALG.APV-527 has an antibody-like *in vivo* half-life



ALG.APV-527 Mode of Action

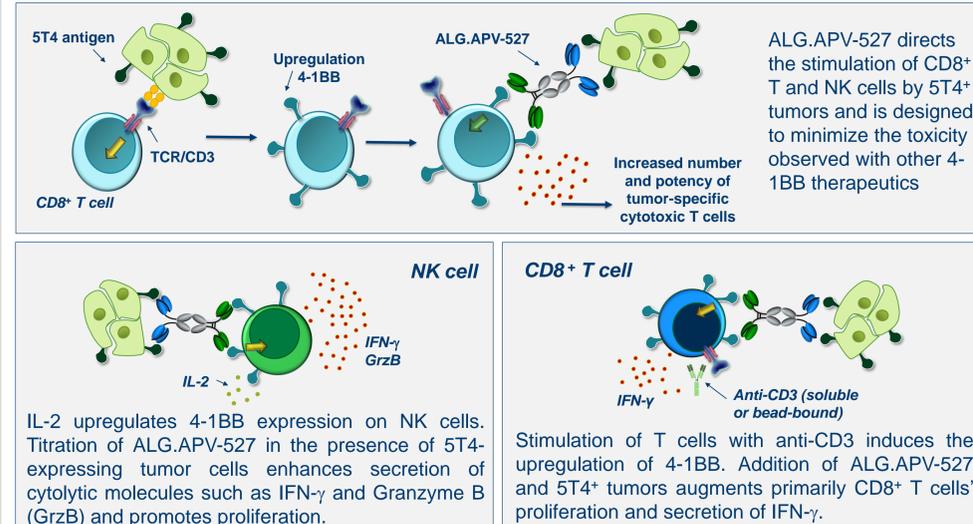


Figure 1. ALG.APV-527 augments CD8+ T cells and NK cells

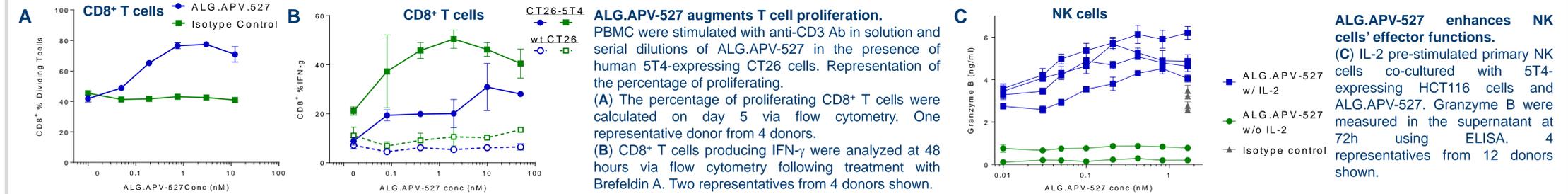


Figure 2. ALG.APV-527 promotes increased *in vitro* tumor lysis

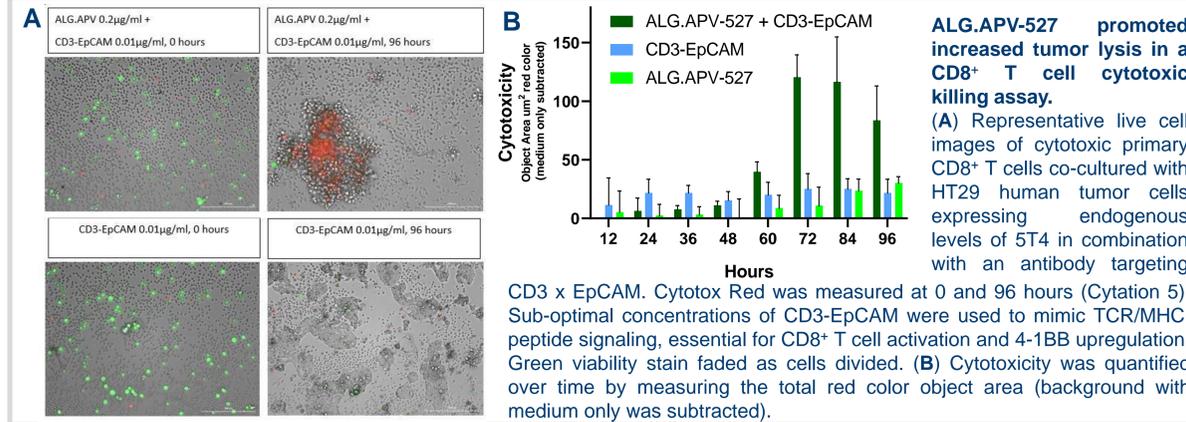


Figure 3. ALG.APV-527 induces rejection of established tumors and promotes anti-tumor memory response

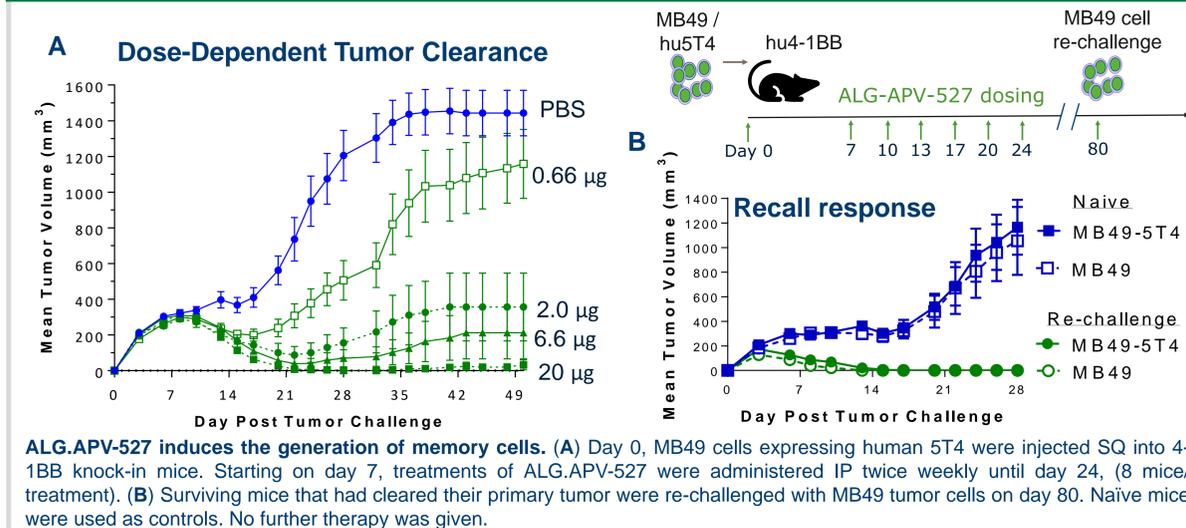
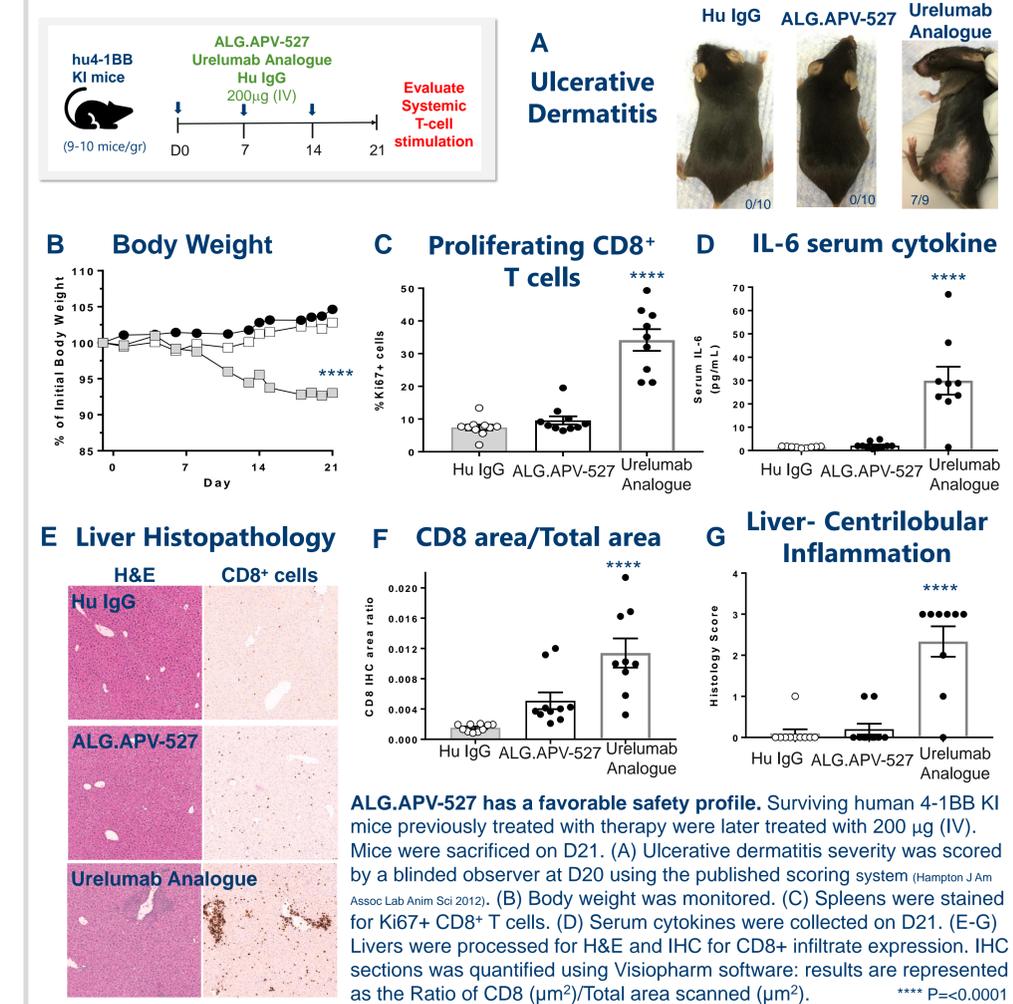


Figure 4. ALG.APV-527 has a favorable safety profile in a murine study



Summary and Conclusions

ALG.APV-527:

- Augments CD8+ T cell proliferation & IFN- γ production & the cytotoxic profile of NK cells in the presence of 5T4+ tumor cells
- Inhibits growth of 5T4+ tumor cells in a human 4-1BB KI murine model and induce tumor-specific memory cells
- Induced cytotoxic killing of 5T4-expressing tumor cells when CD8+ T cells were stimulated with a sub-optimal concentration of CD3-EpCAM showing that the ALG.APV-527 induced tumor cell killing is dependent on CD3/TCR activation of T cells.

- ALG.APV-527 has a favorable non-clinical safety profile with no indications of systemic activation or liver toxicity in NHP or murine models
- The anti-4-1BB x anti-5T4 targeting ADAPTIR molecule, ALG.APV-527, has the potential to be a unique anti-cancer therapeutic agent with an improved safety profile for the treatment of numerous 5T4-expressing solid tumors with unmet medical need
- CTA documents are prepared for filing of a phase 1 clinical trial

