

INHIBITING TIGIT TO PROMOTE ANTI-TUMOR IMMUNITY

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Molecular Suppression of T Cells in the Tumor Microenvironment: T Cell Inhibitory Receptors (Checkpoints)





TIGIT is an Inhibitory Receptor That Out-Competes CD226 Activating Receptor for CD155 Binding, Resulting in Immunosuppression





Similar to the PD-1/CD28 Interaction, PD-1 Has Also Been Shown to Restrict CD226 Signaling







CD226 Signaling Can be Enhanced Through Co-blockade of PD-1 and TIGIT





functionality

Domvanalimab (Fc-silent) and AB308 (Fc-enabled) are Potent Anti-TIGIT Antibodies Currently Being Evaluated in Cancer Patients





¹Han *et al.* (2020) Frontiers in Immun. DOI: 10.3389/fimmu.2020.573405
²Waight *et al.* (2018) Cancer Cell. DOI: 10.1016/j.ccell.2018.05.005
³Chen *et al.* (2022) Frontiers in Immun. DOI: 10.3389/FIMMU.2022.828319/BIBTEX

<u>In Mice</u>, Combination of α-PD-1 with Either Fc-Silent (FcS) or Fc-Enabled (WT) α-TIGIT Enhances Tumor Control α-TIGIT-WT Associated With Intratumoral T_{reg} Depletion BIOSCIENCES



In Human, Fc-enabled AB308 and tiragolumab Induce FcγRmediated Signaling and Promote NK-mediated ADCC Against TIGIT-Expressing Target Cells





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tiragolumab synthesized by Arcus based on INN publication

What is the Identity of TIGIT-expressing T cells Modulated by Treatment with Anti-TIGIT Antibodies?





¹⁰ Miller et al. (2019) Nat Immunol, DOI: 10.1038/s41590-019-0312-6

Stem-like (TCF-1⁺) and **Terminally Differentiated** (TIM-3⁺) CD8⁺ T Cells are Present in NSCLC Tumors



Gated on CD8⁺ T cells



In NSCLC Tumors, PD-1, TIGIT, and CD226 are Expressed on a High Proportion of Both Stem-like and Terminally Differentiated CD8⁺ T Cells



SCIENCES

PD-1+TIGIT+CD226+ Stem-like CD8+ T cells are Probable Targets for Co-blockade of PD-1 and TIGIT







- Fc-enabled AB308, but not Fc-silent domvanalimab, has the capacity to bind Fcγ receptors and promote NK-mediated ADCC
- PD-1, TIGIT, and CD226 are co-expressed on both stem-like and terminally differentiated intratumoral CD8⁺ T cell subsets in NSCLC subjects
- Akin to reported cellular targets of anti-PD-(L)1¹, PD-1, TIGIT, and CD226 co-expressing stem-like CD8⁺ T cells are probable targets for anti-TIGIT therapy
- Given that stem-like CD8⁺ T cells are essential for anti-tumor responses¹ and that PD-1 and TIGIT can both suppress CD226 activity², further work is required to understand how co-blockade of PD-1 and TIGIT impacts PD-1⁺TIGIT⁺CD226⁺ stem-like CD8⁺ T cells

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https://arcusbio.com/careers/#careers



Annual Research Retreat Napa, CA (Circa 2019)

