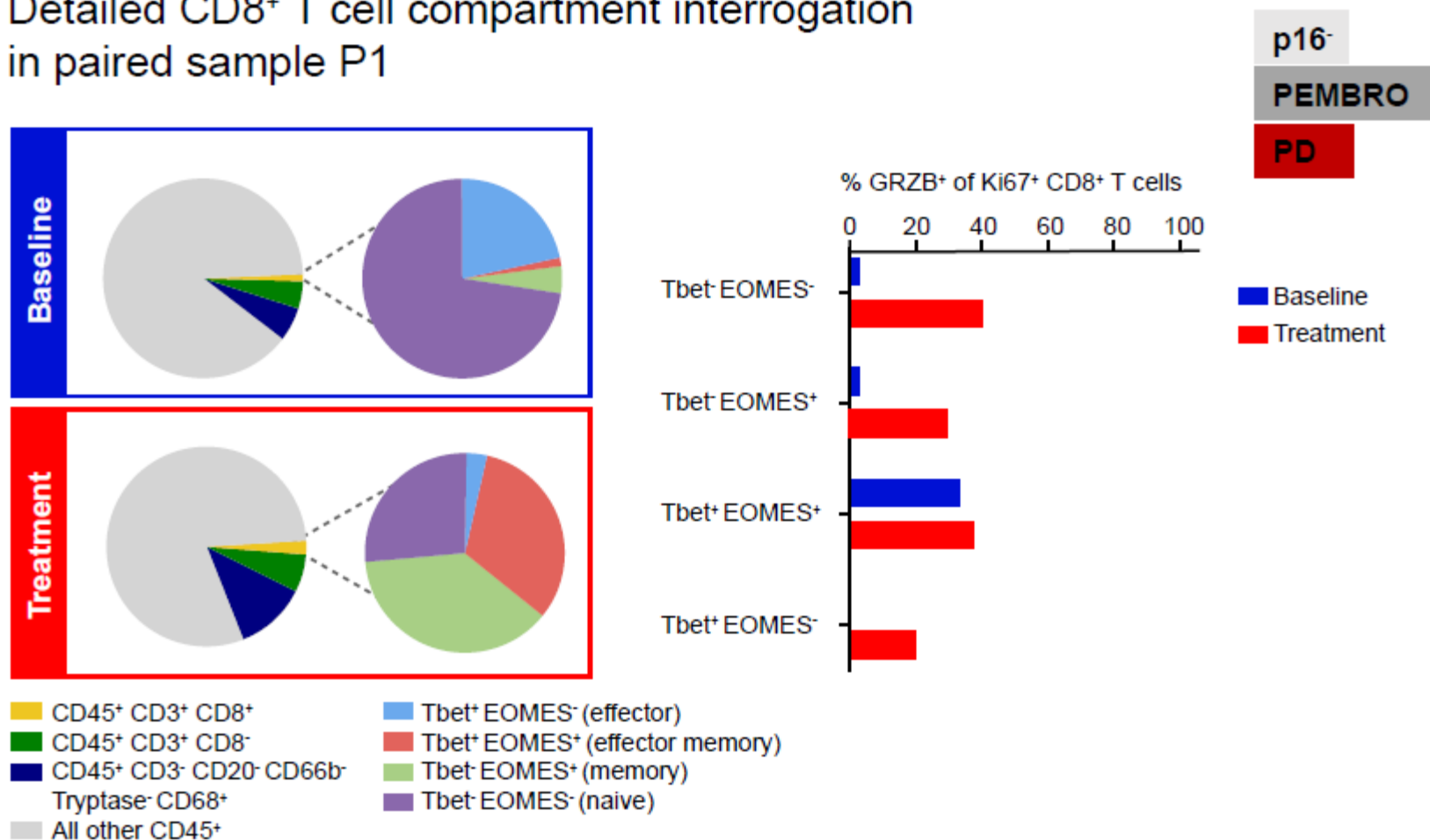
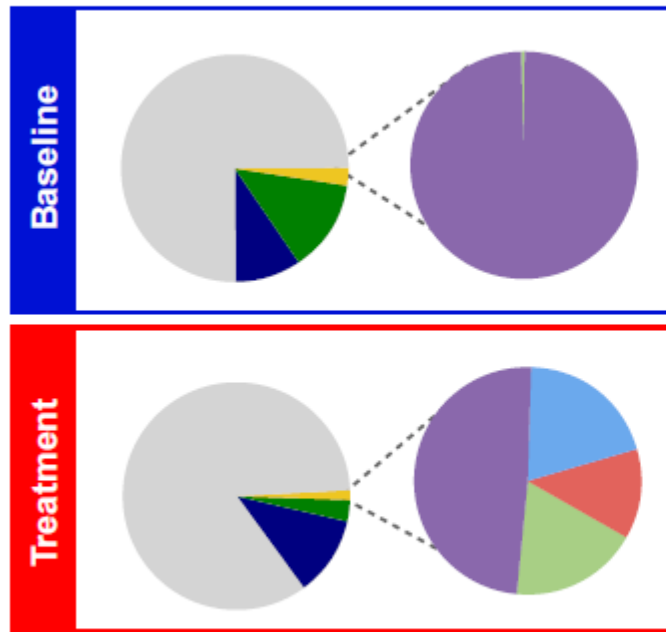


Figure S4. Detailed CD8⁺ T cell Compartment Interrogation.

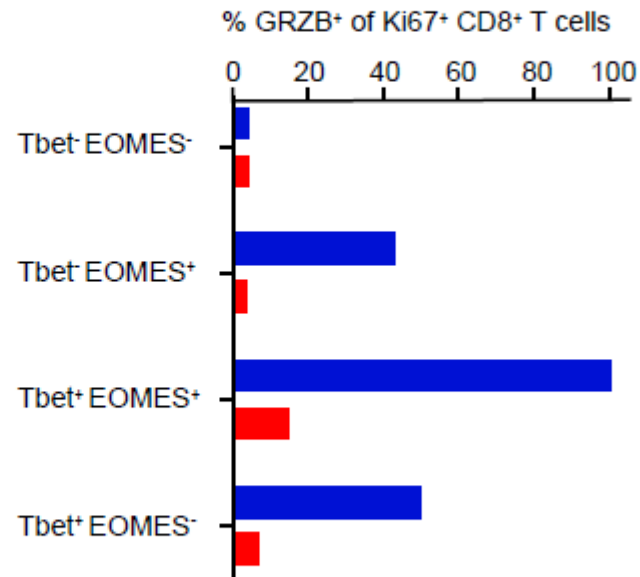
Detailed CD8⁺ T cell compartment interrogation in paired sample P1



Detailed CD8⁺ T cell compartment interrogation in paired sample P2



- CD45⁺ CD3⁺ CD8⁺
- CD45⁺ CD3⁺ CD8⁻
- CD45⁺ CD3⁻ CD20⁻ CD66b⁻ Tryptase⁻ CD68⁺
- All other CD45⁺
- Tbet⁺ EOMES⁻ (effector)
- Tbet⁺ EOMES⁺ (effector memory)
- Tbet⁻ EOMES⁺ (memory)
- Tbet⁻ EOMES⁻ (naive)



p16⁻

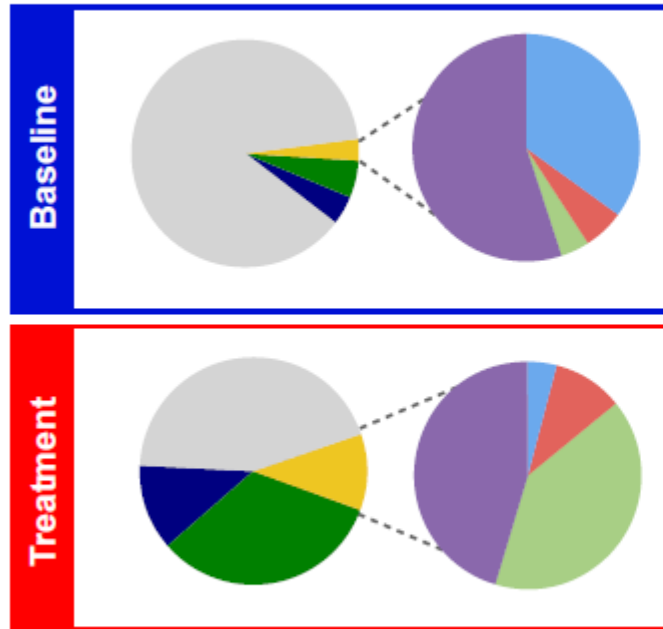
PEMBRO + Acalabrutinib

PD

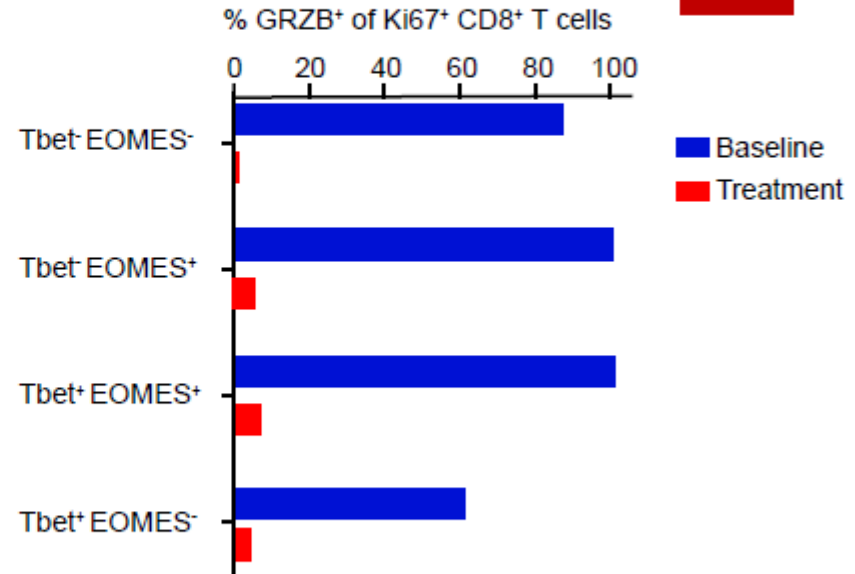
■ Baseline

■ Treatment

Detailed CD8⁺ T cell compartment interrogation in paired sample P3



- CD8⁺ T cells
- Tbet⁺ EOMES⁻ (effector)
- CD4⁺ T cells
- Tbet⁺ EOMES⁺ (effector memory)
- CD68⁺ myelomonocytic
- Tbet⁻ EOMES⁺ (memory)
- Other CD45⁺ cells
- Tbet⁻ EOMES⁻ (naive)



p16⁺

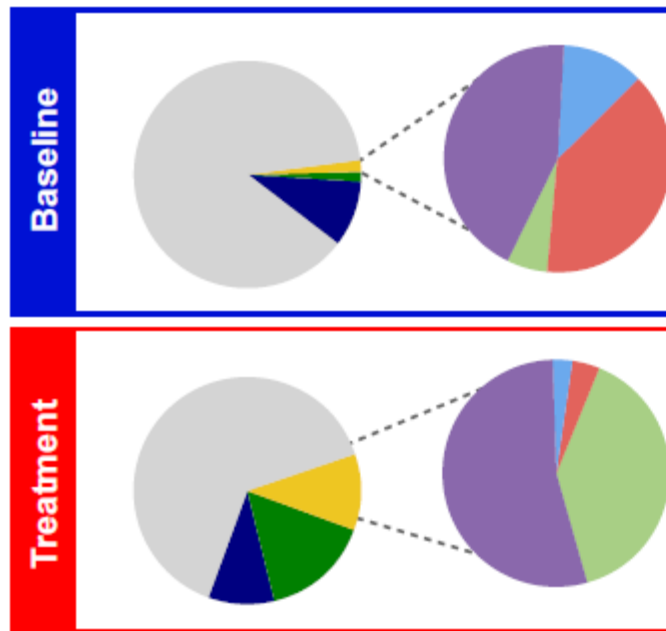
PEMBRO

PD

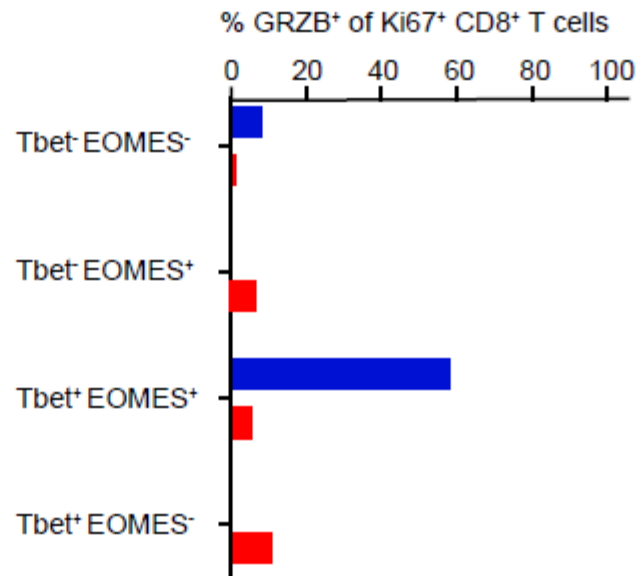
Baseline

Treatment

Detailed CD8⁺ T cell compartment interrogation in paired sample P4



- CD8⁺ T cells
- Tbet⁺ EOMES⁻ (effector)
- CD4⁺ T cells
- Tbet⁺ EOMES⁺ (effector memory)
- CD68⁺ myelomonocytic
- Tbet EOMES⁺ (memory)
- Other CD45⁺ cells
- Tbet EOMES⁻ (naive)



p16⁻

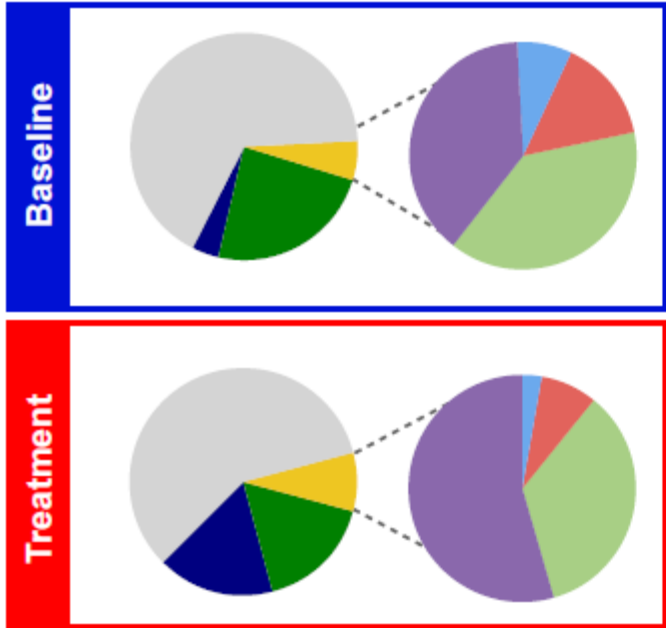
PEMBRO + Acalabrutinib

SD

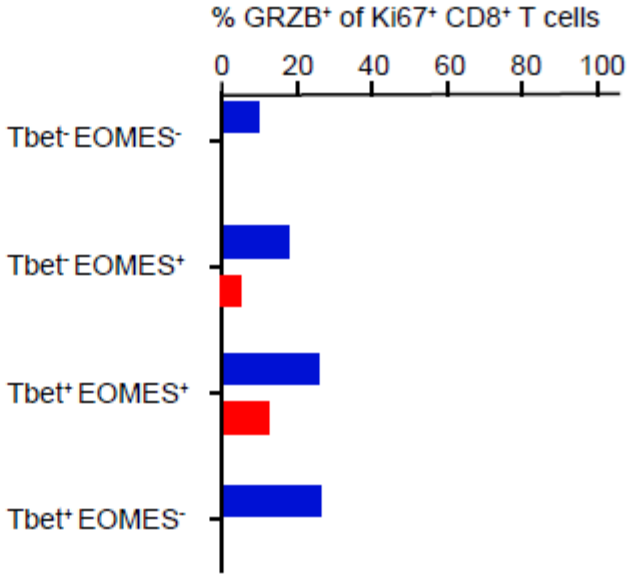
■ Baseline

■ Treatment

Detailed CD8⁺ T cell compartment interrogation in paired sample P5



- CD45⁺ CD3⁺ CD8⁺
- CD45⁺ CD3⁺ CD8⁻
- CD45⁺ CD3⁻ CD20⁻ CD66b⁻ Tryptase⁻ CD68⁺
- All other CD45⁺
- Tbet⁺ EOMES⁻ (effector)
- Tbet⁺ EOMES⁺ (effector memory)
- Tbet⁻ EOMES⁺ (memory)
- Tbet⁻ EOMES⁻ (naive)



p16⁺

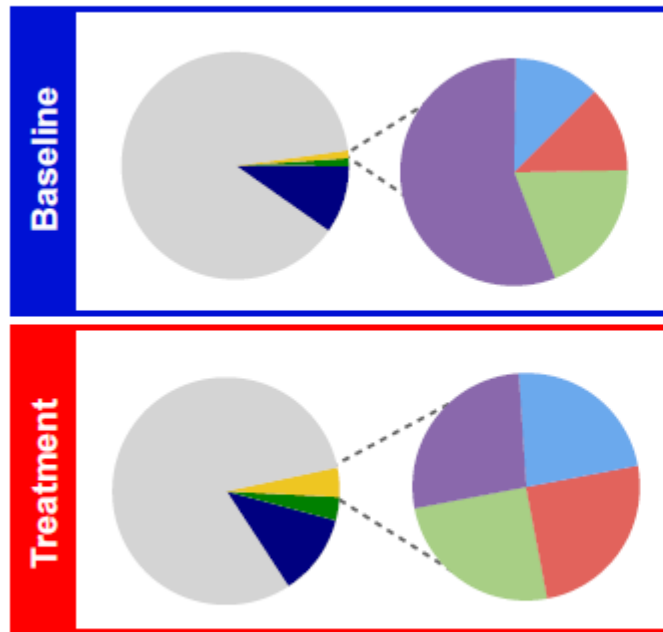
PEMBRO

PD

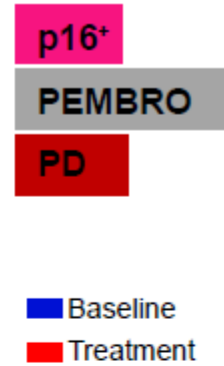
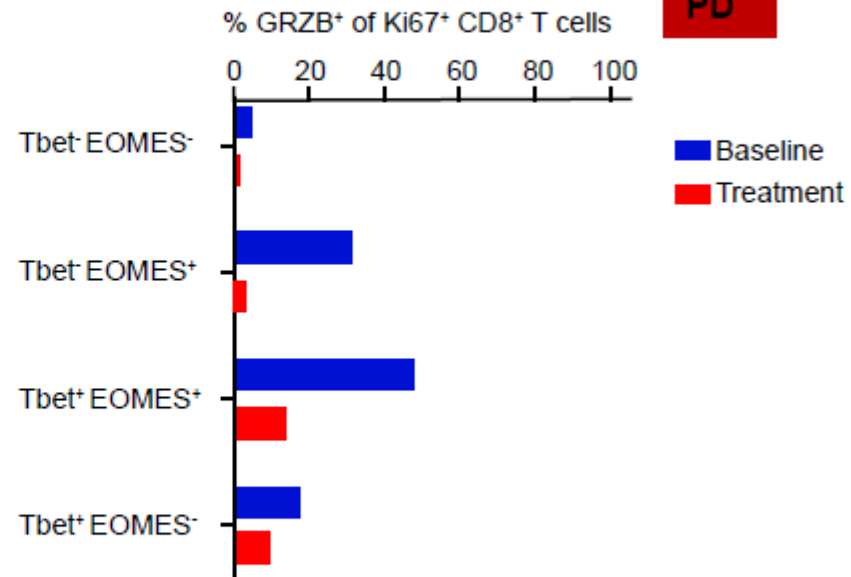
Baseline

Treatment

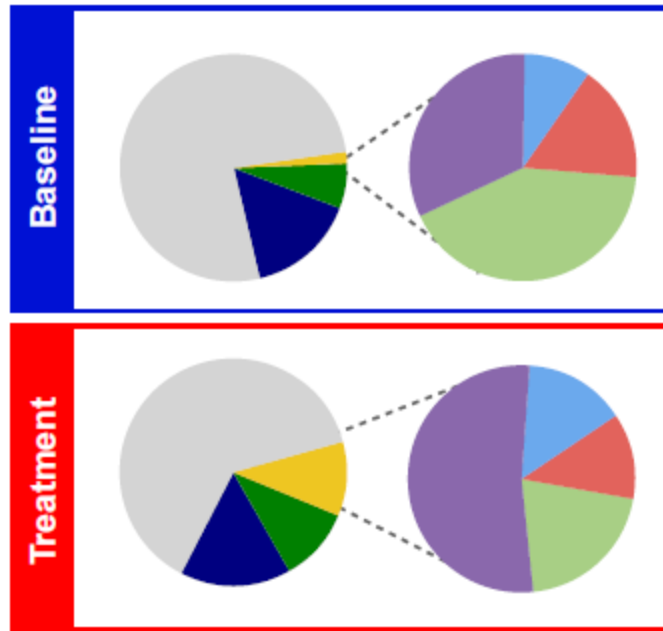
Detailed CD8⁺ T cell compartment interrogation in paired sample P6



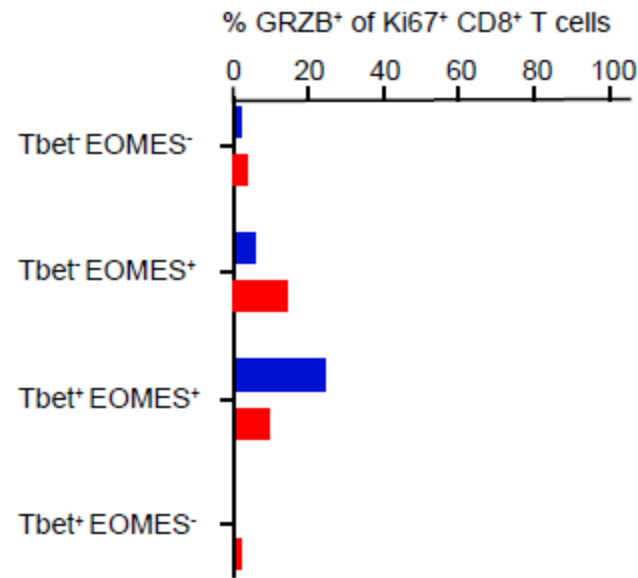
- CD45⁺ CD3⁺ CD8⁺
- CD45⁺ CD3⁺ CD8⁻
- CD45⁺ CD3⁻ CD20⁻ CD66b⁻
Tryptase⁻ CD68⁺
- All other CD45⁺
- Tbet⁺ EOMES⁻ (effector)
- Tbet⁺ EOMES⁺ (effector memory)
- Tbet⁻ EOMES⁺ (memory)
- Tbet⁻ EOMES⁻ (naive)



Detailed CD8⁺ T cell compartment interrogation in paired sample P9



- CD45⁺ CD3⁺ CD8⁺
- CD45⁺ CD3⁺ CD8⁻
- CD45⁺ CD3⁻ CD20⁻ CD66b⁻ Tryptase⁻ CD68⁺
- All other CD45⁺
- Tbet⁺ EOMES⁻ (effector)
- Tbet⁺ EOMES⁺ (effector memory)
- Tbet⁻ EOMES⁺ (memory)
- Tbet⁻ EOMES⁻ (naive)



p16⁺
PEMBRO
PD

■ Baseline
■ Treatment

Detailed CD8⁺ T cell compartment interrogation in paired sample P7 and P10 (baseline only)

