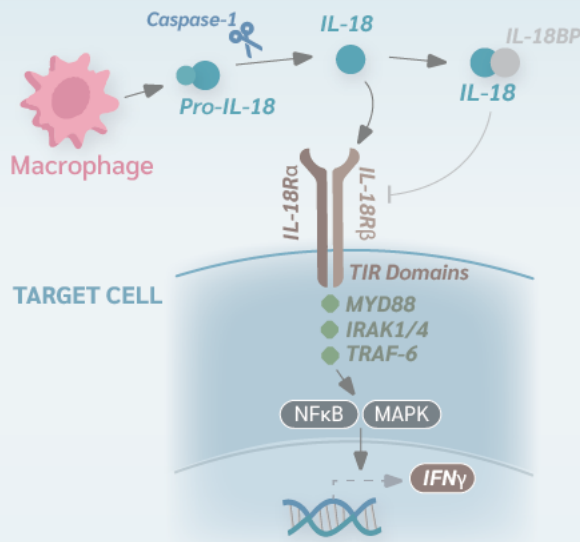


# A TRAINER:

## IL-18 ENHANCES THE BATTLE EFFECTIVENESS OF NK CELLS AGAINST CANCER CELLS

### How does IL-18 influence inflammation and immunity?

IL-18, primarily produced by macrophages, is activated through caspase-1-mediated cleavage within inflammasomes. Its regulation involves a negative feedback loop with increased IL-18 binding protein synthesis, impacting immune responses and demonstrating a dual influence in modulating inflammation.



- Production of IFN $\gamma$  and pro-inflammatory cytokines/chemokines
- Proliferation and effector function of CD8+ T cells and  $\gamma\delta$  T cells
- Activation of NK cells
- Expression of FasL
- Regulation of Th1 and Th2 responses

### How does IL-18 influence NK cells in tumor immunity?

