Crucial role for TAD-regulated Notch activity in mediating endothelial cell survival and promoting recovery of hematopoiesis following chemotherapeutic stress.

Notch1 receptor
- Extracellular domain
- Intra-cellular domain
  - ANK
  - TAD (Transcriptional activation domain)
  - PEST

Notch1^{+/-ΔTAD} receptor
- Extracellular domain
- Intra-cellular domain
  - Lack of one copy of TAD

2. \(\downarrow\) Tie2 signaling

Bone marrow endothelial niche
- Other hematopoietic cell
- Notch1 ligand

EC
- Notch1^{+/-ΔTAD}
- Notch 1

HSC
- Notch 1 ligand

Chemotherapy
- \(\uparrow\) apoptosis
- \(\downarrow\) regeneration of the bone marrow niche

Shao et al., Haematologica, 2019