

TNF

This article has been translated from WikiSkripta; ready for the **editor's review**.

Tumor necrosis factor (TNF) is the best known **cytokine** of the TNF family. It is released from a number of cell types, especially activated macrophages. One of the acute phase reactants is endogenous pyrogen. TNF signaling can, among other things, **activate apoptosis** and thus, inter alia, inhibit tumor growth (hence the name). Long-term TNF signaling leads to cachexia (hence the name). TNF dysregulation appears to be involved in the pathogenesis of many diseases. Anti-TNF therapy is being tested in the treatment of autoimmune diseases in particular.

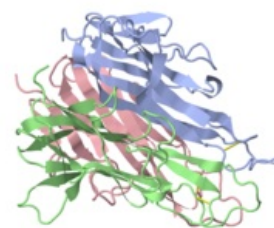


Figure 1

TNF-alpha

Links

Related articles

- Cytokines
- Apoptosis
- Biology of oncogenesis

External links

- WAJANT, H, K PFIZENMAIER a P SCHEURICH. Tumor necrosis factor signaling. Cell Death Differ [online]. 2003, vol. 10, no. 1, s. 45-65, dostupné také z <<http://www.nature.com/cdd/journal/v10/n1/pdf/4401189a.pdf>>. ISSN 1350-9047.
- DE PAEPE, B, KK CREUS a JL DE BLEECKER. The tumor necrosis factor superfamily of cytokines in the inflammatory myopathies: potential targets for therapy. Clin Dev Immunol [online]. 2012, vol. 2012, s. 369432, dostupné také z <<https://www.hindawi.com/journals/jir/2012/369432/>>. ISSN 1740-2530.
- SONAR, S a G LAL. Role of Tumor Necrosis Factor Superfamily in Neuroinflammation and Autoimmunity. Front Immunol [online]. 2015, vol. 6, s. 364, dostupné také z <<https://www.frontiersin.org/articles/10.3389/fimmu.2015.00364/full>>. ISSN 1664-3224.
- ŠEDÝ, J, V BEKIARIS a CF WARE. Tumor necrosis factor superfamily in innate immunity and inflammation. Cold Spring Harb Perspect Biol [online]. 2015, vol. 7, no. 4, s. a016279, dostupné také z <<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4382740/?tool=pubmed>>. ISSN 1943-0264.
- BENDTZEN, K. Immunogenicity of Anti-TNF- α Biotherapies: I. Individualized Medicine Based on Immunopharmacological Evidence. Front Immunol [online]. 2015, vol. 6, s. 152, dostupné také z <<https://www.frontiersin.org/articles/10.3389/fimmu.2015.00152/full>>. ISSN 1664-3224.
- BENDTZEN, K. Immunogenicity of Anti-TNF- α Biotherapies: II. Clinical Relevance of Methods Used for Anti-Drug Antibody Detection. Front Immunol [online]. 2015, vol. 6, s. 109, dostupné také z <<https://www.frontiersin.org/article/10.3389/fimmu.2015.00109/full>>. ISSN 1664-3224.

Source

ws:TNF