

# Cytokines

◆ Cytokines are small proteins secreted by the cells from the immune system which enable intercellular communication between immune cells during an immune response. While pro-inflammatory cytokines alert our immune system of a potential infection, a dysregulated cytokine production system can lead or play a critical role in a range of diseases including cancer, arthritis, acute respiratory distress syndrome (ARDS) and infectious diseases.

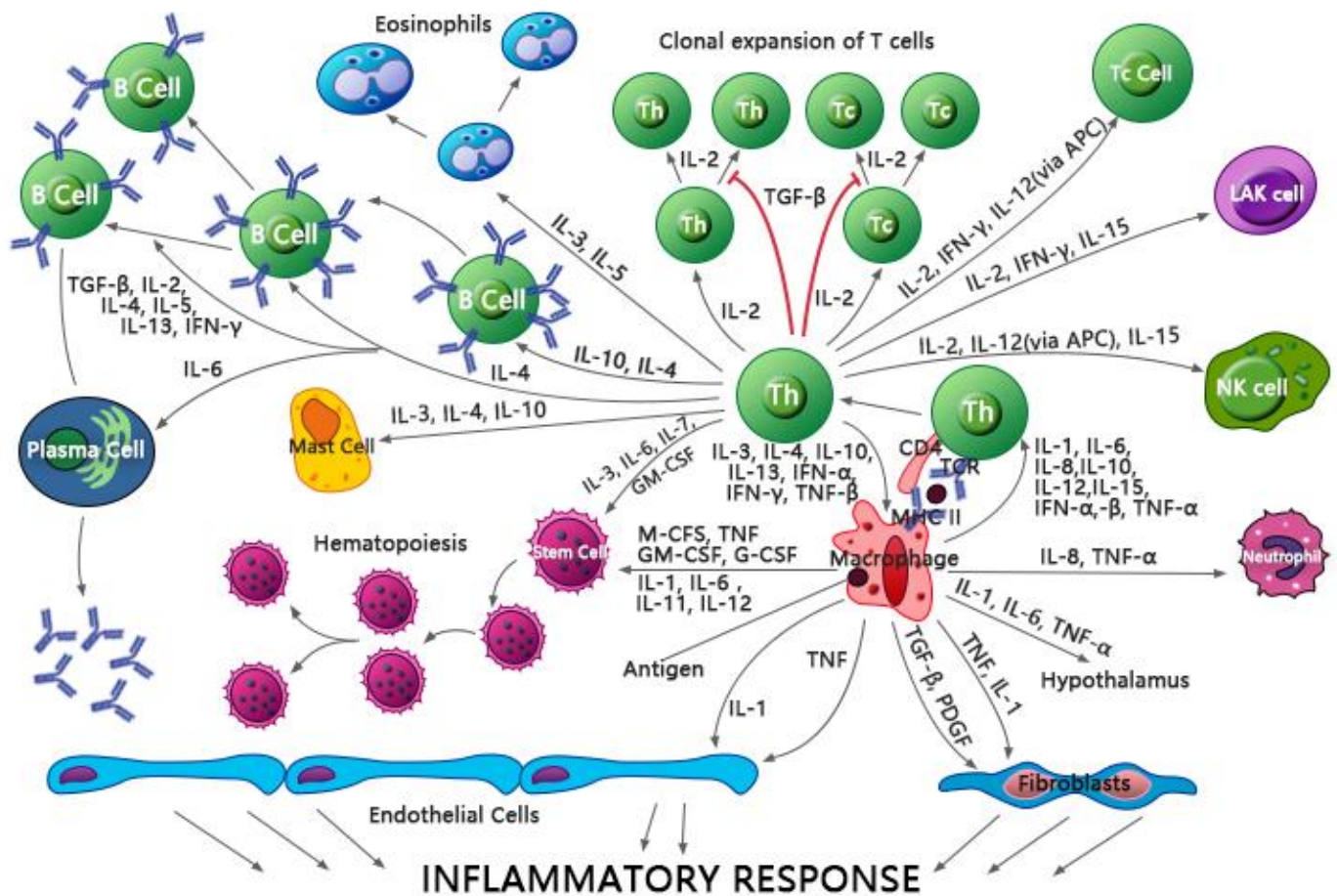
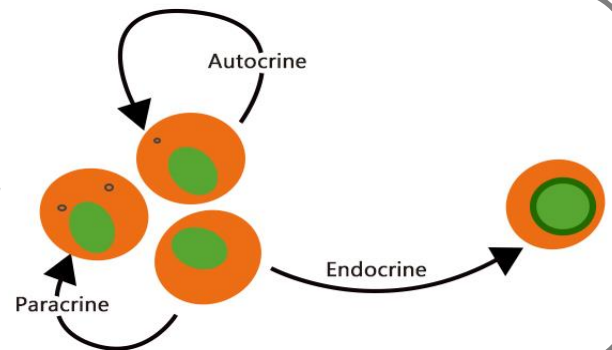


Figure 1. Cell Signaling: Cytokines and Their Receptors (<http://www.veteriankey.com>)

# Cytokine Products

## Featured Proteins

### Human FGF Basic (cat# TP750002)

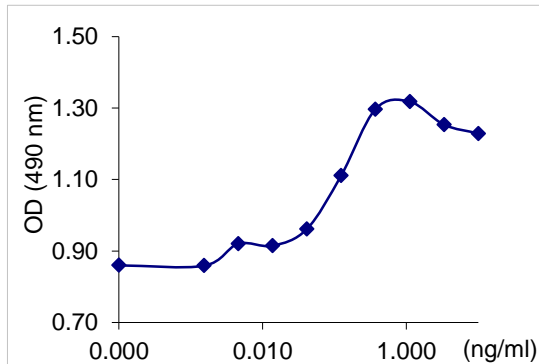


Figure 2. The activity of bFGF was determined in a cell proliferation assay using 3T3 cells.

### Human TNF-alpha (cat# TP750007)

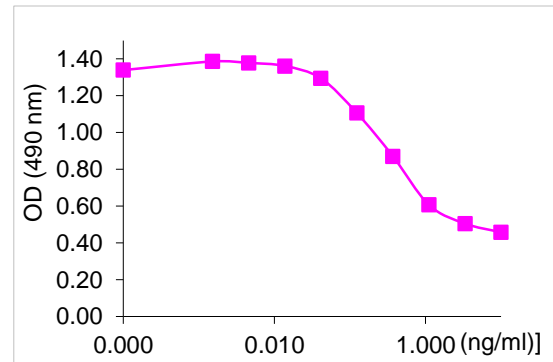


Figure 3. The cytotoxicity of TNF-a was determined by the cytotoxicity of L929 cells in the presence of Actinomycin D.

## OriGene Provides Whole-Product Solutions to Common Cytokines

Cytokine Name	cDNA Clones	RNAi	Protein	Antibody	ELISA Kit	CRISPR Knockout Kit
bFGF / FGF2	✓	✓	✓	✓	✓	✓
VEGFA	✓	✓	✓	✓	✓	✓
LIF	✓	✓	✓	✓	✓	✓
BMP2	✓	✓	✓	✓	✓	✓
TNFa	✓	✓	✓	✓	✓	✓
IL6	✓	✓	✓	✓	✓	✓
GDF11	✓	✓	✓	✓		✓
RSPO1	✓	✓	✓	✓		✓
CD34	✓	✓	✓	✓		✓
EBI3	✓	✓	✓	✓		✓
Msln	✓	✓	✓	✓	✓	✓
FGF19	✓	✓	✓	✓	✓	✓
IL2	✓	✓	✓	✓	✓	✓
IFNA2	✓	✓	✓	✓		✓
EGFR	✓	✓	✓	✓	✓	✓

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