Leader in Biomolecular Solutions for Life Science

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Human TNF alpha Monoclonal Antibody

Catalog No.: YR0013

Basic Information

Molecular Weight
150 kDa

Endotoxin
<1EU/mg (<0.001EU/μg)Determined by LAL gel clotting assay

Sterility
0.2 μm filtration

Aggregation
<5% Determined by SECP

Purity
94.03% Determined by SEC-HPLC

Background

Adalimumab, the first fully human monoclonal antibody drug approved by FDA, binds to TNFα, inactivates TNF receptors, and downregulates the inflammatory reactions associated with a variety of autoimmune diseases, such as rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, Crohn's disease, ulcerative colitis, moderate to severe chronic psoriasis and juvenile idiopathic arthritis.Mainly produced by activated macrophages (M1), Tumor necrosis factor (TNF, cachexin, cachectin, tumor necrosis factor alpha, TNFα) plays important roles in the regulation of immune cells. As a member of a group of cytokines that stimulate the acute phase reaction, TNF is involved in systemic inflammation and able to induce fever, apoptotic cell death, cachexia, inflammation, and to inhibit tumorigenesis and viral replication and respond to sepsis via IL1 & IL6 producing cells. Dysregulation of TNF expression could have serious impact in a variety of human diseases including Alzheimer's disease, cancer, major depression and inflammatory bowel disease.

Reported Applications

ELISA,neutralization,functional assays such as bioanalytical P K and ADA assays,and those assays for studying biological pathways

Immunogen Information

Clone
Adalimumab Biosimilar

Isotype
Human IgG1 kappa

Immunogen
Human TNF alpha

RecommendedIsotype Control(s)
In Vivo Grade Recombinant Human IgG1 Kappa Isotype Control Antibody

Recommended Dilution Buffer
1×PBS pH 7.3

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

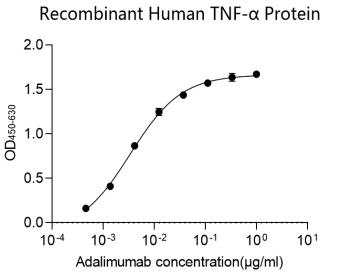
Product Information

Production
Purified from cell culture supernatant in an animal-free facility

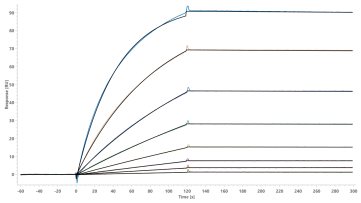
Purification
Protein A or G purification

Storage
Store at -20℃

Validation Data



Direct ELISA binding curve demonstrating the recognition of Human Anti-Human TNF-α (Research Grade Adalimumab Biosimilar) Monoclonal Antibody to TNF-α. The target protein was coated onto the microplate well surface, followed by binding of the antibody. A donkey anti-human IgG HRP conjugate was used for detection.



Determined through SPR assay, the Human Anti-Human TNF-α (Research Grade Adalimumab
Biosimilar) Monoclonal Antibody is Capable of binding to Human TNF-α with an affinity constant of 0.1658 nM.