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10-2008: Recombinant Anti-TNFa (Adalimumab biosimilar) mAb

Clonality :	Monoclonal
Application :	ELISA,WB
Gene :	TNFA
Gene ID :	7124
Uniprot ID :	P01375
Alternative Name :	Cachectin, TNF-alpha, TNFA, TNFSF2, Tumor necrosis factor ligand superfamily member 2 (TNF-a)
Isotype :	Human IgG1, kappa

Description

SOURCE: Chinese Hamster Ovary Cells (CHO).

Adalimumab belongs to the pharmacotherapeutic group ‘immunosuppressants, tumour necrosis factor alpha (TNF-α) inhibitors’ (ATC code: L04AB04). The mechanism of action of adalimumab is binding specifically to TNF-α and neutralising its biological function by blocking its interaction with the p55 and p75 cell surface TNF receptors.

Adalimumab is a recombinant human IgG1 monoclonal antibody composed of two kappa light chains each with a molecular weight of approximately 24 kilo Daltons (kDa) and two IgG1 heavy chains each with a molecular weight of approximately 49 kDa based on the amino acid sequence. The total molecular weight of adalimumab with post-translational modifications is approximately 148 kDa. Each light chain consists of 214 amino acid residues and each heavy chain consists of 451 amino acid residues resulting in a total of 1330 amino acids for the entire IgG1 molecule; one glycosylation site (N301) is present. The primary amino-acid sequence of the heavy and light chains is reported.

Product Info

Amount :	100 µg
Purification :	Greater than 98.0% as determined by SDS-PAGE.
Content :	Adalimumab is supplied as solution in 60mM Trehalose, 0.7mM L-Histidine, 0.8mM L-His-Cl, and 30gm/lit Polysorbate 20.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Application Note

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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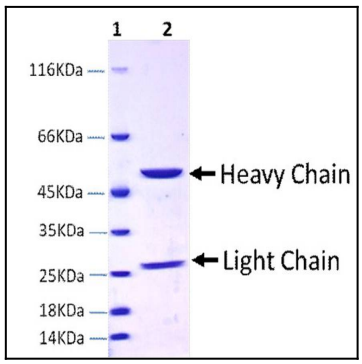


Figure-1: SDS-Page analysis of Adalimumab. Adalimumab was purified by three step chromatography process followed by buffer exchange and concentration.

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