

DESCRIPTION

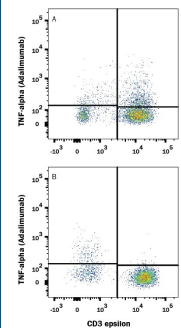
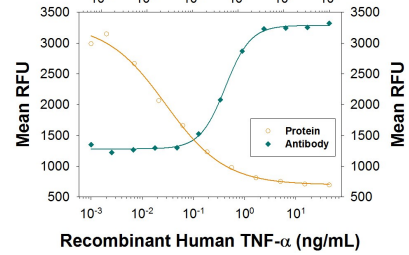
Species Reactivity	Human
Specificity	Detects human TNF- α in direct ELISAs. This non-therapeutic antibody uses the same variable region sequence as the therapeutic antibody Adalimumab. This product is for research use only.
Source	Recombinant Monoclonal Human IgG ₁ Clone # Hu7
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Human TNF- α
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25 μ g/10 ⁶ cells	See Below
Neutralization	Measured by its ability to neutralize TNF- α -induced cytotoxicity in the L-929 mouse fibroblast cell line. Matthews, N. and M.L. Neale (1987) in Lymphokines and Interferons, A Practical Approach. Clemens, M.J. <i>et al.</i> (eds): IRL Press. 221. The Neutralization Dose (ND ₅₀) is typically 2-12 ng/mL in the presence of 0.25 ng/mL Recombinant Human TNF- α and actinomycin D.	

DATA

<p>Intracellular Staining by Flow Cytometry</p>  <p>Detection of TNF- alpha in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) (A) treated with PMA and Ca²⁺ ionomycin overnight, or (B) resting, were stained with Human Anti-Human TNF- alpha (Research Grade Adalimumab Biosimilar) Monoclonal Antibody (Catalog # MAB9677) followed by Goat anti-Human APC-conjugated Secondary Antibody (Catalog # F0135) and Mouse anti-Human CD3 PE-conjugated Monoclonal Antibody (Catalog # FAB100P). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.</p>	<p>Neutralization</p>  <p>Human TNF-α (Adalimumab) Antibody (ng/mL)</p> <p>Cytotoxicity Induced by TNF-α and Neutralization by Human TNF-α Antibody. Recombinant Human TNF-α (Catalog # 210-TA) induces cytotoxicity in the L-929 mouse fibroblast cell line in a dose-dependent manner (orange line), as measured by Resazurin (Catalog # AR002). Cytotoxicity elicited by Recombinant Human TNF-α (0.25 ng/mL) is neutralized (green line) by increasing concentrations of Human Anti-Human TNF-α (Research Grade Adalimumab Biosimilar) Monoclonal Antibody (Catalog # MAB9677). The ND₅₀ is typically 2-12 ng/mL in the presence of the metabolic inhibitor actinomycin D.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Adalimumab is a biosimilar directed against the extracellular domain of TNF- α . This constitutes the immunogen used for the anti-Idiotypic catalog numbers MAB9616 and MAB9546. The biotinylated antibody (catalog number IC9677B) can be used in flow cytometry or various assay format to measure EGFR expression and can be detected by conjugated streptavidin.