

# anti-human Tumor Necrosis Factor-alpha (anti-hTNF-alpha)

monoclonal antibody IT5H2 to TNF-alpha (human)

**Cat-No:** 21453011

100 µg in 100 µl

**Clone:** IT5H2

**Specificity:** The monoclonal antibody IT5H2 recognizes human TNF-alpha in Western blot and ELISA.

**Isotype:** Mouse IgG2b

**Form:** Purified from hybridoma culture supernatant by Protein G affinity chromatography.

**Purity:** The purity is > 95 % as determined by SDS-PAGE.

**Physical state:** liquid

**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.2).

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at -20 °C. Avoid freeze/thaw cycles.

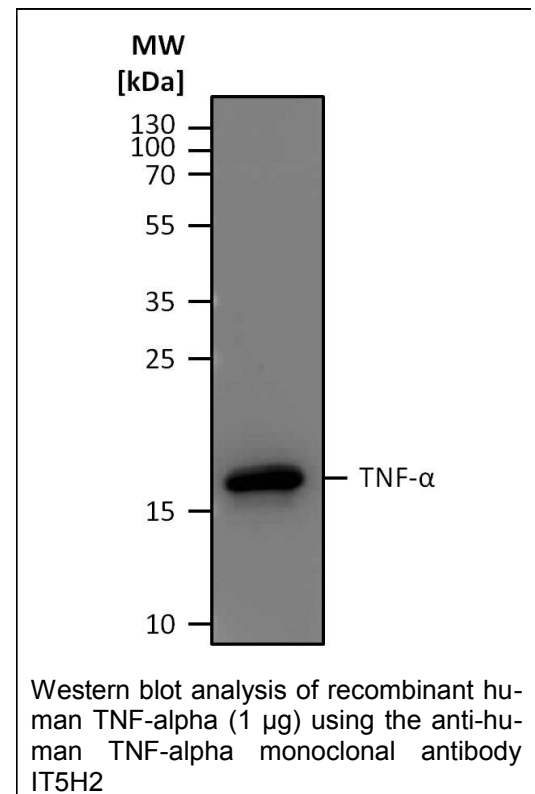
**Application:** Western blot, ELISA

Our lab uses the recommended concentration of 0.1 - 10 µg/ml for Western blot. But it is up to the user to determine the optimal concentration for Western blot and ELISA.

**Background:** Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF-alpha is mainly secreted by macrophages. TNF-alpha causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication and is also involved in lipid metabolism and coagulation. TNF's primary role is in the regulation of immune cells. Dysregulation and in particular overproduction of TNF-alpha have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance and cancer.

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink, and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for research only. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.



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