

Technical Data Sheet

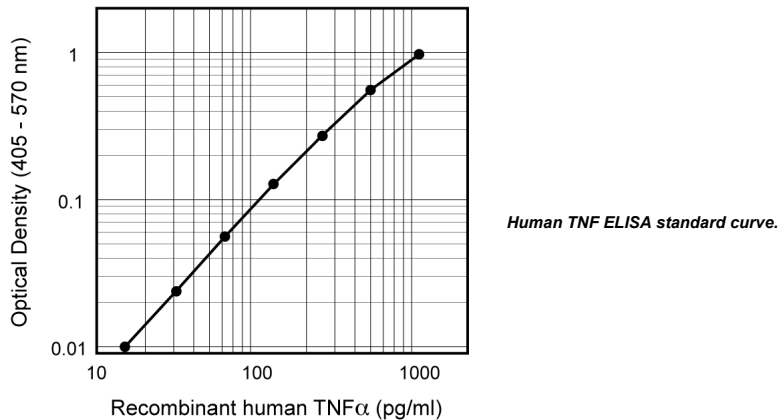
Purified Mouse Anti-Human TNF

Product Information

Material Number:	551220
Size:	1.0 mg
Concentration:	0.5 mg/ml
Clone:	MAb1
Immunogen:	Recombinant Human TNF
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The MAb1 antibody reacts with human tumor necrosis factor (TNF) protein. The immunogen used to generate the MAb1 hybridoma was recombinant human TNF. The use of the MAb1 antibody for epitope mapping of human TNF has been described.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes

Application

ELISA Capture	Routinely Tested
Western blot	Tested During Development
Neutralization	Tested During Development

Recommended Assay Procedure:

**ELISA Capture:** The purified MAb1 antibody (Cat. No. 551220) is useful as a capture antibody for a sandwich ELISA for measuring human TNF protein levels. The purified MAb1 antibody can be paired with the biotinylated MAb11 antibody (Cat. No. 554511) as the detection antibody, with recombinant human TNF protein (Cat. No. 554618) as the standard. The purified MAb1 antibody should be titrated between 2 - 6 µg/ml to determine its optimal concentration for ELISA capture. To obtain linear standard curves, doubling dilutions of TNF standard ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit our web site, [www.bdbiosciences.com](http://www.bdbiosciences.com), and go to the protocols section or the chapter on ELISA in the Immune Function Handbook.

BD Biosciences

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**Note:** This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum or plasma samples. For measuring human TNF in serum or plasma our human TNF BD OptEIA™ ELISA Set (Cat. No. 555212) or BD OptEIA™ ELISA Kit (Cat. No. 550610) are specially formulated and recommended.

**Western Blot:** The MAb1 antibody has been reported to be useful for Western blot; however, the antibody is not routinely tested for this application at BD Biosciences Pharmingen.

**Neutralization:** The MAb1 antibody is available in the no azide/low endotoxin format (NA/LE) as Cat. No. 554508, useful for neutralization of human TNF protein bioactivity.

### Suggested Companion Products

Catalog Number	Name	Size	Clone
554511	Biotin Mouse Anti-Human TNF	0.5 mg	MAb11
554618	Recombinant Human TNF	0.1 mg	(none)
555212	Human TNF ELISA Set	20 plates	(none)
550610	Human TNF ELISA Kit II	2 plates	(none)

### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

### References

Danis VA, Franic GM, Rathjen DA, Brooks PM. Effects of granulocyte-macrophage colony-stimulating factor (GM-CSF), IL-2, interferon-gamma (IFN-gamma), tumour necrosis factor-alpha (TNF-alpha) and IL-6 on the production of immunoreactive IL-1 and TNF-alpha by human monocytes. *Clin Exp Immunol.* 1991; 85(1):143-150.(Clone-specific: ELISA)

Rathjen DA, Cowan K, Furphy LJ, Aston R. Antigenic structure of human tumour necrosis factor: recognition of distinct regions of TNF alpha by different tumour cell receptors. *Mol Immunol.* 1991; 28(1-2):79-86.(Clone-specific: ELISA, Neutralization)