

Technical Data Sheet

Purified Rat Anti-Mouse/Rat TNF

Product Information

Material Number:	551225
Size:	1.0 mg
Concentration:	0.5 mg/ml
Clone:	G281-2626
Immunogen:	Recombinant Mouse TNF
Isotype:	Rat IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The G281-2626 antibody reacts with mouse and rat tumor necrosis factor (TNF). The immunogen used to generate the G281-2626 hybridoma was recombinant mouse TNF. This is a neutralizing antibody. Cross reactivity with LT- α has not been determined.

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

Neutralization Activity:

The NA/LE™ (no azide/low endotoxin) format of G281-2626 antibody (Cat. No. 554640) is useful for neutralization of mouse and rat TNF bioactivity.

Recommended Assay Procedure:

ELISA Capture: Purified G281-2626 antibody is useful as a capture antibody for a sandwich ELISA for measuring either mouse or rat TNF protein levels. The purified G281-2626 antibody should be titrated from 4-8 µg/ml to determine its optimal concentration for ELISA capture. To obtain linear standard curves, doubling dilutions of TNF protein (Cat. No. 554589) ranging from 4,000 to 20 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, visit the protocols section of our website, or the chapter on ELISA in the Immune Function Handbook, which is posted on our web site at www.bdbiosciences.com.

MOUSE TNF ELISA: The combination of purified G281-2626 antibody with biotin MP6-XT3 (Cat. No. 554415) is useful for measuring free TNF. The combination of purified TN3-19.12 (Cat. No. 557516) with biotin C1150-14 (Cat. No. 557432) is useful for measuring total TNF, both free TNF as well as TNF bound by soluble TNF receptors.

Note: These ELISA pairs are recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum or plasma samples. For measuring free TNF in serum or plasma our anti-mouse TNF BD OptEIA™ ELISA Set (Cat. No. 555268) is specially formulated and recommended. For measuring total TNF in serum or plasma our anti-mouse TNF OptEIA Set (Cat. No. 558534) or OptEIA Kit (Cat. No. 559732) is specially formulated and recommended.

RAT TNF ELISA: Purified G281-2626 antibody can be paired with the biotinylated IgG fraction of polyclonal rabbit anti-mouse/rat TNF antiserum (Cat. No. 557432) as the detecting antibody and with recombinant rat TNF (Cat. No. 555109) as the standard.

Note: These ELISA pairs are recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum or plasma samples. For measuring rat TNF in serum or plasma, a our anti-rat TNF OptEIA Set (Cat. No. 558535) is specially formulated and recommended.

Please note: For best results, use 0.1 M sodium phosphate pH 6.0 binding buffer with this antibody.

BD Biosciences

www.bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit www.bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2007 BD



Western blotting: The G281-2626 antibody has been found useful for Western blotting; however, the antibody is not tested for this application at BD Biosciences PharMingen.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554415	Biotin Rat Anti-Mouse TNF	0.5 mg	MP6-XT3
557432	Biotin Rabbit Anti-Mouse/Rat TNF	0.5 mg	C1150-14
555268	Mouse TNF ELISA Set	20 tests	(none)
555109	Recombinant Rat TNF	5 µg	(none)
554589	Recombinant Mouse TNF	10 µg	(none)
558534	Mouse TNF ELISA Set II	20 plates	(none)
558535	Rat TNF ELISA Reagent Set	20 plates	(none)
554640	Purified NA/LE Rat Anti-Mouse TNF	0.5 mg	G281-2626

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 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

Abrams J. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In: Coligan J, Kruisbeek A, Margulies D, Shevach E, Strober W, ed. *Current Protocols in Immunology*. New York: John Wiley and Sons; 1995:6.20-6.21.(Biology)

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev*. 1992; 127:5-24.(Biology)