

TNF-R2 Antibody

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	65	Rabbit	#P20333	7133

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

TNF-R2 Antibody detects endogenous levels of total TNF-R2 protein.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp339 within the intracellular region of human TNF-R2. Antibodies are purified by protein A and peptide affinity chromatography.

Background

TNF-α is an important cytokine produced by numerous cell types, including neutrophils, activated lymphocytes, macrophages, and NK cells. It plays a critical role in inflammatory responses and apoptosis (1). TNF-α exists as a membrane-anchored and soluble form, both of which show biological activity. Response to TNF-α is mediated through two receptors, TNF-R1, which is widely expressed, and TNF-R2, which is expressed mainly in immune and endothelial cells (2). Antagonists to TNF-α have been validated as therapeutic targets for rheumatoid arthritis and other immune disorders (3).

The two receptors for TNF-α, TNF-R1 (55 kDa) and TNF-R2 (75 kDa) can mediate distinct cellular responses (4,5). In most cases cytotoxicity elicited by TNF has been reported to act through TNF-R1 (6,7). In contrast, TNF-R2 appears to be important in T cell signaling and responses to infection (7,8). TNF-R2 binds to distinct members of the TRAF family leading to the activation of NF-κB (9,10). Soluble forms of both receptors have also been characterized which can bind TNF-α and may play an important role in immune disorders (11,12).

Background References

1. Aggarwal, B.B. (2003) *Nat Rev Immunol* 3, 745-56.
2. Locksley, R.M. et al. (2001) *Cell* 104, 487-501.
3. Taylor, P.C. et al. (2004) *Curr Opin Biotechnol* 15, 557-63.
4. Tartaglia, L.A. et al. (1991) *Proc. Natl. Acad. Sci. USA* 88, 9292-9296.
5. Peschon, J.J. et al. (1998) *J. Immunol.* 160, 943-952.
6. Tartaglia, L.A. et al. (1993) *Cell* 73, 213-216.
7. Rothe, J. et al. (1993) *Nature* 364, 798-802.
8. Aspalter, R.M. et al. (2003) *J. Leukoc. Biol.* 74, 572-582.
9. Rothe, M. et al. (1994) *Cell* 78, 681-692.
10. Rothe, M. et al. (1995) *Science* 269, 1424-1427.
11. Humbert, M. et al. (1994) *Am. J. Respir. Crit. Care Med.* 149, 1681-1685.
12. Schröder, J. et al. (1995) *Infection* 23, 143-8.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.