

ZYMED[®] Laboratories

invitrogen immunodetection

Qty: 100µg/400 µL

Rabbit anti-TRAF6 (C-term)

Catalog No. 38-0900

Lot No.

Rabbit anti-TRAF6 (C-term)

FORM

This polyclonal antibody is supplied as a 400 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is peptide-affinity purified from rabbit antiserum.

PAD: ZMD.338

IMMUNOGEN

Synthetic peptide derived from the C-terminal region of the human and mouse TRAF6 (TNF receptor-associated factor 6) protein.

SPECIFICITY

This antibody reacts with the human and mouse TRAF6 proteins. On Western blots, it identifies a band at ~55 kDa and a band at ~60 kDa. The two bands may represent the two reported forms of this protein (522 and 530 amino acids).

REACTIVITY

Reactivity has been confirmed with human Hela, HEK293, Jurkat, and mouse NIH3T3 cell lysates.

Sample	Western Blotting	Immunoprecipitation (Native)
Human	+++	+++
Mouse	+++	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunoprecipitation: 7 µg/reaction

Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

www.invitrogen.com

Invitrogen Corporation • 1600 Faraday Avenue • Carlsbad • CA 92008 • Tel: 800.955.6288 • E-mail: tech_support@invitrogen.com

PIN: 31529

Rev. 11/06

DCC-06-0084

Copyright 2005, Zymed Laboratories

BACKGROUND

TRAFs (Tumor necrosis factor receptor-associated factors) are cytoplasmic adaptor proteins that associate with tumor necrosis factor receptors (TNFR), thus mediating tumor necrosis factor (TNF) induced signaling. The TRAF family consists of six members (TRAF1-6).¹⁻³ TRAF proteins play an important role in regulating cellular death and cellular response to stress by mediating stimulation of AP-1 family through activation of MAP kinases, including JNK/SAPKs, ERKs and p38s.⁴ They are also involved in the regulation of inflammatory and anti-apoptotic responses through activation of the transcription factors of NF- κ B.⁵

TRAF6 possesses several binding motifs in CD40, TRANCE-R and IRAK suggesting a crucial role in TRANCE-R signaling. It is involved in the activation of the anti-apoptotic serine/threonine kinase Akt/PKB through TRANCE-R.⁶ Due to its specific receptor-binding TRAF-C domain, TRAF6 is the only member of the TRAF family that also participates in signal transduction of the interleukin-1 receptor (IL-1R)/Toll-like receptor (TLR) superfamily.^{1,7,8} TRAF6 plays a crucial role in adaptive immunity, innate immunity, bone homeostasis, perinatal and postnatal survival, and cytokine signaling.⁹

REFERENCES

1. Cao Z, et al. *Nature* 383:443-446, 1996.
2. Nakano H, et al. *J Biol Chem* 271:14661-14664, 1996.
3. Rothe M, et al. *Cell* 78:681-692, 1994.
4. Karin M. *Philos Trans R Soc Lond B Biol Sci* 351:127-134, 1996
5. Darnay BG, et al. *J Biol Chem* 274:7724-7731, 1999.
6. Wong BR, et al. *Mol Cell* 4:1041-1049, 1999.
7. Aderem A and Ulevitch RJ. *Nature* 406:782-787, 2000.
8. Chung JY, et al. *J Cell Sci* 115:679-688, 2002.
9. Ye H, et al. *Nature* 418:443-447, 2002.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

Zymed[®] and ZyMAX[™] are trademarks of Zymed Laboratories Inc. Cy[™] and Sepharose[®] are trademarks of Amersham Biosciences Ltd.

For Research Use Only

MZ040310

www.invitrogen.com

Invitrogen Corporation • 1600 Faraday Avenue • Carlsbad • CA 92008 • Tel: 800.955.6288 • E-mail: tech_support@invitrogen.com

PIN: 31529

Rev. 11/06

DCC-06-0084