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- Trockeneiszuschlag
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TACE (CT), ADAM 17 (CT), (TNF α Converting Enz). Rabbit Antigen Immunoaffinity Purified Polyclonal
TNF- α Converting Enzyme C-terminal; ADAM17, CSVP, TACE

BACKGROUND

Tumor-necrosis factor- α is a proinflammatory cytokine and contributes to a variety of inflammatory disease responses and programmed cell death. TNF- α is synthesized as a 26K type II membrane-bound precursor that is cleaved by a convertase to generate secreted 17K mature TNF- α . TNF- α converting enzyme (TACE) protein was recently purified and the human and mouse TACE cDNAs were cloned by several groups separately (1-3). TACE is a membrane-bound metalloprotease-disintegrin in the family of mammalian ADAM (for a disintegrin and metalloprotease). TACE also processes other cell surface proteins, including TNF receptor, TGF α , the L-selectin adhesion molecule, and alpha-cleavage of amyloid protein precursor (APP) (4,5). TACE mRNA is expressed in a variety of human and murine tissues. TACE was selected as one of the few targets in cytokine activation by the Eighth International Conference of the Inflammation Research Association. (6)

ORDERING INFORMATION

CATALOG NUMBER
X1123P

SIZE
100 μ g
FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided in phosphate buffered saline solution containing 0.02% sodium azide as a preservative

CONCENTRATION
See vial for concentration

ISOTYPE
IgG

APPLICATIONS
Western Blot

SPECIES REACTIVITY
Human, Mouse, Rat

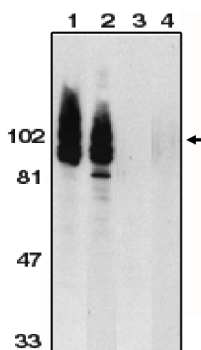
ACCESSION NUMBER

Human	P78536
Mouse	Q9Z0F8
Rat	Q9Z1K9

IMMUNOGEN

Synthetic peptide corresponding to amino acids 807 to 823 of the human TACE protein. Immunogen sequence differs from the mouse and rat sequences by one amino acid.

Western blot analysis using anti-TACE (CT) antibody at 1 μ g/ml on HeLa (1,3) and Jurkat (2,4) whole cell lysate in the absence (1,2) and presence (3,4) of blocking peptide.



POSITIVE CONTROL/TISSUE EXPRESSION

HeLa and Jurkat whole cell lysates

COMMENTS

Detects TACE by Western blot at 0.25 to 1 $\mu\text{g/ml}$. Detects an approximately 130 kDa band in HeLa and Jurkat whole cell lysate which may represent mature protein, precursor, and glycosylated TACE. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C . Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Black, R.A., et al. A metalloproteinase disintegrin that releases tumour-necrosis factor-alpha from cells. *Nature* 1997, 385, 729-733
2. Moss, M.L., et al. Cloning of a disintegrin metalloproteinase that processes precursor tumour-necrosis factor-alpha. *Nature* 1997, 385, 733-736
3. Mizui, Y., et al., cDNA cloning of mouse tumor necrosis factor-alpha converting enzyme (TACE) and partial analysis of its promoter. *Gene* 1999, 233, 67-74
4. Peschon, J.J., et al. An essential role for ectodomain shedding in mammalian development. *Science* 1998, 282, 1281-4
5. Buxbaum, J.D., et al. Evidence that tumor necrosis factor alpha converting enzyme is involved in regulated alpha-secretase cleavage of the Alzheimer amyloid protein precursor. *J. Biol. Chem.* 1998, 273, 27765-27767
6. Giegel, D.A. and Chaplin, D.D. Targets in cytokine activation. *Agents Actions Suppl.* 1998, 49, 1-3
7. Blaydon, D.C, et al. Inflammatory Skin and Bowel Disease Linked to ADAM17 Deletion *N Engl J Med*, 2011, 365, 1502-1508

PRODUCT SPECIFIC REFERENCES