

Human TACE/ADAM17 Mouse Monoclonal Antibody

Cat. No. ADAM17-289A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TACE/ADAM17 Antibody (B-6) is a mouse monoclonal IgG1κ TACE/ADAM17 antibody. raised against amino acids 1-300 mapping at the N-terminus of TACE of human origin.
Species	Human
Source	Mouse
Description	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biologic processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The encoded preproprotein is proteolytically processed to generate the mature protease. The encoded protease functions in the ectodomain shedding of tumor necrosis factor-alpha, in which soluble tumor necrosis factor-alpha is released from the membrane-bound precursor. This protease also functions in the processing of numerous other substrates, including cell adhesion proteins, cytokine and growth factor receptors and epidermal growth factor (EGF) receptor ligands, and plays a prominent role in the activation of the Notch signaling pathway. Elevated expression of this gene has been observed in specific cell types derived from psoriasis, rheumatoid arthritis, multiple sclerosis and Crohn's disease patients, suggesting that the encoded protein may play a role in autoimmune disease. Additionally, this protease may play a role in viral infection through its cleavage of ACE2, the cellular receptor for SARS-CoV and SARS-CoV-2.

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Form	Each vial contains 200 µg IgG1 kappa light chain in 1.0 mL of PBS with < 0.1% sodium azide and 0.1% gelatin.
Molecular Mass	Molecular Weight of glycosylated TACE: 120 kDa. Molecular Weight of TACE active form: 80 kDa.
Applications	TACE (B-6) is recommended for detection of TACE precursor of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50 - 1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30 - 1:3000); not recommended for detection of TACE of mouse or rat origin. Suitable for use as control antibody for TACE siRNA (h), TACE shRNA Plasmid (h) and TACE shRNA (h) Lentiviral Particles. also available conjugated to Alexa Fluor 488, Alexa Fluor 546, Alexa Fluor 594 or Alexa Fluor 647 for WB (RGB), IF, IHC(P) and FCM, and for use with RGB fluorescent imaging systems, such as iBright FL1000, FluorChem, Typhoon, Azure and other comparable systems also available conjugated to Alexa Fluor 680 or Alexa Fluor 790 for WB (NIR), IF and FCM; for use with Near-Infrared (NIR) detection systems, such as LI-COR Odyssey, iBright FL1000, FluorChem, Typhoon, Azure and other comparable systems
Storage	Store at 4 centigrade, **DO NOT FREEZE** . Stable for one year from the date of shipment. Non-hazardous. No MSDS required.
Concentration	200 µg/mL
Clonality	Monoclonal
Isotype	IgG1 kappa light chain

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Positive Controls NAMALWA cell lysate, K-562 whole cell lysate or MOLT-4 cell lysate

GENE INFORMATION

Gene Name [ADAM17 ADAM metallopeptidase domain 17 \[Homo sapiens \(human\) \]](#)

Official Symbol [ADAM17](#)

Synonyms ADAM17; ADAM metallopeptidase domain 17; CSVP; TACE; NISBD; ADAM18; CD156B; HYPT16; NISBD1; disintegrin and metalloproteinase domain-containing protein 17; ADAM metallopeptidase domain 18; TNF-alpha convertase; TNF-alpha convertase enzyme; TNF-alpha converting enzyme; a disintegrin and metalloproteinase 17; cartilage snake venom-like protease; snake venom-like protease; tumor necrosis factor, alpha, converting enzyme; EC 3.4.24.86

Gene ID [6868](#)

mRNA Refseq [NM_003183](#)

Protein Refseq [NP_003174](#)

MIM [603639](#)

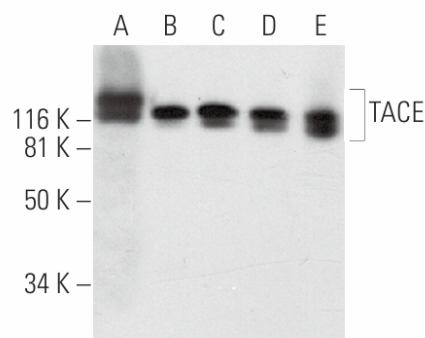
UniProt ID [P78536](#)

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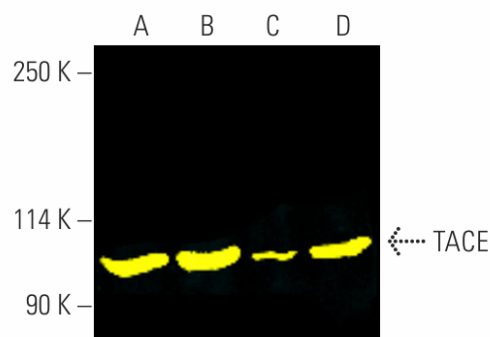
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WB



Western blot analysis of TACE expression in NAMALWA(A), K-562(B), MOLT-4(C), BJAB(D) and CCRF-HSB-2(E) whole cell lysates.

Fluorescent western blot analysis



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