

Human TACE/ADAM17 Ectodomain Mouse Monoclonal Antibody

Cat. No. ADAM17-279A **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Mouse
Conjugation/Label	Unconjugated

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	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. *Small pack size (SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.
Purity	Protein A or G purified from hybridoma culture supernatant.
Applications	Validated: Knockout Validated, Western Blot, Flow Cytometry, Immunoprecipitation, CyTOF-ready Cited: Western Blot, Flow Cytometry, Immunocytochemistry, Proximity Ligation Assay 1. CyTOF-ready: Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. 2. Flow Cytometry: 0.25 µg/10 ⁶ cells. Sample: HeLa human cervical epithelial carcinoma cell line 3. Immunoprecipitation: 25 µg/mL Sample: Conditioned cell culture medium spiked with Recombinant Human TACE/ADAM17. 4. Knockout Validated TACE/ADAM17 is specifically detected in HeLa human carcinoma parental cell line but is not detectable in TACE/ADAM17 knockout HeLa cell line. 5. Western Blot: 1 µg/mL Sample: Recombinant Human TACE/ADAM17 Western Blot Standard under non-reducing conditions only Reviewed Applications
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 6 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs.
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Specificity	Detects the ectodomain of human TACE/ADAM17 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with the ectodomain of

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recombinant human ADAM8, 9, 15 and recombinant mouse ADAM10 is observed.

Clonality	Monoclonal
Isotype	IgG1
Validated by	Knockout/Knockdown
Species Reactivity	Validated: Human Cited: Human
Clone	111633
Immunogen	Insect ovarian cell line T. ni-derived recombinant human TACE/ADAM17 (Pro18-Asn671)

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

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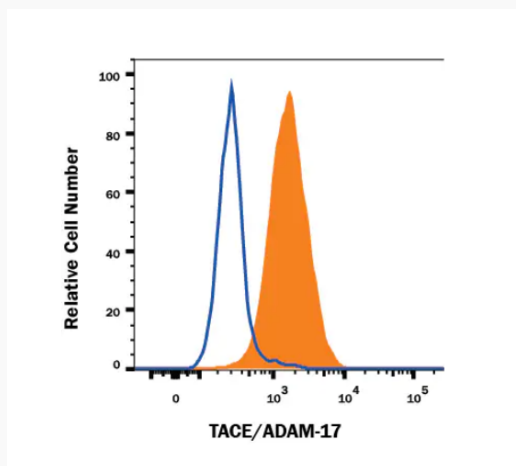
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_003174

MIM 603639

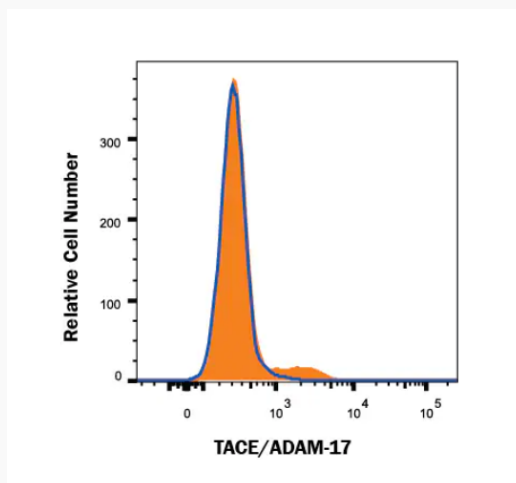
UniProt ID P78536

Fc



Detection of TACE/ADAM17 in HeLa Human Cell Line by Flow Cytometry.

Fc



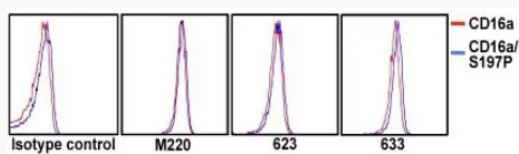
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TACE/ADAM17 Specificity is Shown by Flow Cytometry in Knockout Cell Line.

Fc



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