Human TACE/ADAM17 Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF9301

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TACE/ADAM17 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human TACE/ADAM17 Arg215-Asn671 Accession # P78536
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

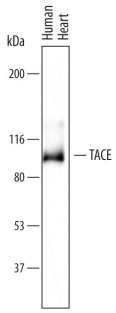
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

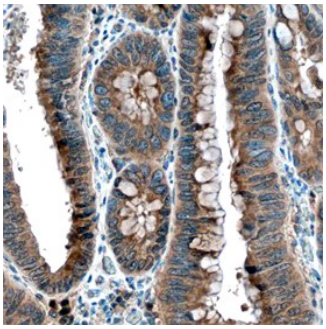
DATA

Western Blot



Detection of Human TACE/ADAM17 by Western Blot. Western blot shows lysates of human heart tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human TACE/ADAM17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF9301) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for TACE/ADAM17 at approximately 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



TACE/ADAM17 in Human Colon. TACE/ADAM17 was detected in immersion fixed paraffin-embedded sections of human colon using Goat Anti-Human TACE/ADAM17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF9301) at 3 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TACE is a member of the ADAM family that contains A Disintegrin And Metalloprotease-like domain. Like other membrane-anchored ADAMs, TACE consists of a pro domain with a cysteine switch and furin cleavage sequence, a catalytic domain with the zinc-binding site and Met-turn expected for reprolysins, a disintegrin-like domain, a cysteine-rich domain, an EGF-like domain, a transmembrane domain, and the cytoplasmic domain. In addition to its ability to release the 17 kDa extracellular form of tumor necrosis factor-α (TNF-α) from the 26 kDa membrane-anchored TNF-α, TACE also plays an essential role in shedding ectodomains from a variety of proteins such as L-Selectin, Transforming Growth Factor-α, Amyloid Protein Precursor, and Notch-1 receptor. TACE mRNA is present in virtually every tissue and TACE protein resides both on the cell surface and in the cell.

References:

1. Black, R.A. and J.D. Becherer (1998) in *Tumor Necrosis Factor α-Converting Enzyme*. Barrett, A.J. *et al.* (eds): Handbook of Proteolytic Enzymes, San Diego: Academic Press, p. 1315.
2. Primakoff, P. and D.G. Myles (2000) Trends in Genetics **16**:83.

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