

Human TACE/ADAM17 Ectodomain Biotinylated Antibody

Antigen Affinity-purified Polyclonal Chicken IgY
Catalog Number: BAF930

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TACE/ADAM17 Ectodomain in Western blots.
Source	Polyclonal Chicken IgY
Purification	Antigen Affinity-purified from egg yolks
Immunogen	Insect ovarian cell line <i>T. ni</i> -derived recombinant human TACE/ADAM17 Pro18-Asn671 Accession # P78536
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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	0.1 µg/mL	Recombinant Human TACE/ADAM17 Western Blot Standard (Catalog # WBC029)
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human renal cancer tissue

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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 reprotolysins, 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.